



TOLKAR[®]
SMARTEX[®]
Technological, Ecological, Economical Differences

TEXTILE & GARMENT

Since 1969

TOLKAR FUTURE...



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COMPANY PROFILE

TOLKAR has established in 1969 as a family business regarding to produce textile processing and commercial laundry machines in city of Izmir, TURKEY. From the very first date, continuous development, better quality and customer satisfaction have made up a principle by TOLKAR where at the present day constitutes from 3 splendid innovative production factories in İZMİR Ataturk Industrial Zone, distributorship of the leader manufacturers of their sectors for supplementary products. TOLKAR has its own reputation in the world by reaching the production capacity of 3500 machines per year of various models and exports more than 81 countries abroad. Besides, 19 Regional Branches with their Sales & Service Managements in Turkey TOLKAR has more than 30 distributors with their Sales & Service Managements in abroad, ensures the fastest sales and after sales servicing facilities to their customers.

Along the stage of development, TOLKAR is devoted itself to differ as technological, ecological and economical supremacies. Utilization of latest technologies and techniques in production, TOLKAR performs from starting up the design phase, consequent research & development, prototype production, factory tests, field tests and mass production by accomplishing the mentioned triple mission. All revolutionary inventions those differs as technological, ecological and economical supremacies; have been protected with their Patents in all over the world. All our innovations offer to our customers uncompromisable and inapproachable savings where at the same time minimize the effluent in order to protect the environment for a clean world to the next generations.

TOLKAR provides all capacities of commercial & industrial laundry machines along with auxiliary equipment including turnkey projects and all textile/garment processing, washing, dyeing machines, unique waterless technologies right alongside the distributorship of the leader brands such as BIKO, COLMAC, SPEED QUEEN and RENZACCI.

In 2008, after acquisition of SMARTEX and its patented "Smart Balancing System", TOLKAR becomes the unique company who has the capability of manufacturing very high speed washer extractors by exerting 400 G force while spinning. Yet as the first and the only producer of the unique innovation introduced PolyRib ECO Drum, TOLKAR is proud to offer SMARTEX Miracle series which saves dramatically 50 % from the water, chemicals and heating energy and waste water along with the very first manufacturer of 'Direct Gas Heated' Washer Extractors.

Starting from 2013, TOLKAR announces to work on waterless and chemical free washing and processing technics by concentrating to develop Ozone Washing and Smart Flow Nano Bubble technologies for textile and garment industry in order to achieve dramatic reduction of water as well as to stop heavy chemical wastes. Today dissolution of the ozone gas within the water has achieved by TOLKAR wherein many garment processing steps can be done without chemicals and without any water discharge in shorter times. Same as Smart Flow Nano Bubble Spraying Technology achieves some steps without any water usage and without any discharge to environment.




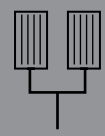

In 2019, TOLKAR established the unmanned laundry and textile washing facilities with TOLKAR Future within the framework of Automation and Industry 4.0 applications. It has managed to establish an almost unmanned business by controlling all washing, drying, chemical transfer, recipe preparation and reporting from a single center by providing loading/unloading and textile transfers with automatic conveyors and shuttles.







Aiming the missionzero vision, Tolkar has generating their own electricity by solar panels and reusing the all consumed water by special treatment in the factories since 2021.

With the consciousness of change alone is unchanging, TOLKAR will perpetuate the leadership in accordance with its mission to next generations.





 <p>1:2-1:2,5 LIQUOR RATIO dry garments</p>	<p>POLYRIB ECODRUM SYSTEM</p> <table border="1"> <tr> <td data-bbox="460 1512 789 1646">  <p>70% less water, chemicals, steam and waste water</p> </td> <td data-bbox="789 1512 1032 1646"> <p>20% less dyes</p> </td> <td data-bbox="1032 1512 1275 1646"> <p>50% more loading allowance</p> </td> </tr> </table>	 <p>70% less water, chemicals, steam and waste water</p>	<p>20% less dyes</p>	<p>50% more loading allowance</p>	 <p>Double Pump Circulation & Drain</p>
 <p>70% less water, chemicals, steam and waste water</p>	<p>20% less dyes</p>	<p>50% more loading allowance</p>			

 <p>SPIN DYE SYSTEM</p> <p>High speed dyeing with Spin Dye Jet Spraying Technology Prevents all crease marks, abrasion and undesired mechanical effects. Sustainable dyeing technology.</p>	 <p>400 G EXTRACTION FORCE</p> <p>20% less drying energy and time</p>	 <p>SMART BALANCING</p> <p>totally vibration free extraction eliminates the risk of damages</p>	 <p>TOLKAR ULTIMATE CONTROL SYSTEM</p> <p>remote access enables updates of parameters or versions, recipe preparation, upload/download, recipe transfer to desired machines USB programme and parameter transfer between machines 100 recipes, 100 steps reporting amount of dyed garments, consumption of water, electric, steam, loading and operating times (Optional)</p>	 <p>PLC Controlled</p> <p>10" Touch Screen Panel</p>	 <p>316 L INNER DRUM</p>
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SMARTEX MIRACLE

High Speed Garment Dyeing Machines

1200-1500-2250-3430-5000 lt



		Miracle GD 1200	Miracle GD 1500	Miracle GD 2250	Miracle GD 3430	Miracle GD 5000
Drum Volume	(lt)	1.125	1.480	2.280	3.430	4.800
Drum Diameter	(mm)	1.070	1.240	1.480	1.720	1.720
Drum Depth	(mm)	1.294	1.255	1.420	1.530	2.120
Max. G Force	(G)	400	400	400	400	400
Motor Power	(Kw)	18,5	22	30	18,5	22
Width	(mm)	1.530	1.750	1.915	2.175	2.200
Depth	(mm)	2.145	2.480	2.275	2.550	3.650
Height	(mm)	2.030	2.120	2.530	2.730	2.550
Height in Tilted Position	(mm)	2.370	2.461	2.845	3.110	3.650
Weight	(Kg)	2.230	2.980	4.530	6.300	7.360



PROFESSIONAL CHEMICAL / DYE KITCHEN

3 large tanks, all with stirrer
 Continous level measurement
 Progressive dosing, Main tank with indirect steam heating
 Easy tank cleaning with filtering system Manual interference



HEAT EXCHANGER

Indirect Steam Heating



ENGINEERED ELECTRO POLISHED DRUM FOR SPECIAL APPLICATIONS

(optional)



AUTOMATIC LOADING DOOR (optional)



AUTO REPORT

Reporting of Consumptions and productivity

(optional)



BACKWARDS TILTING

Easy and Automatic Loading

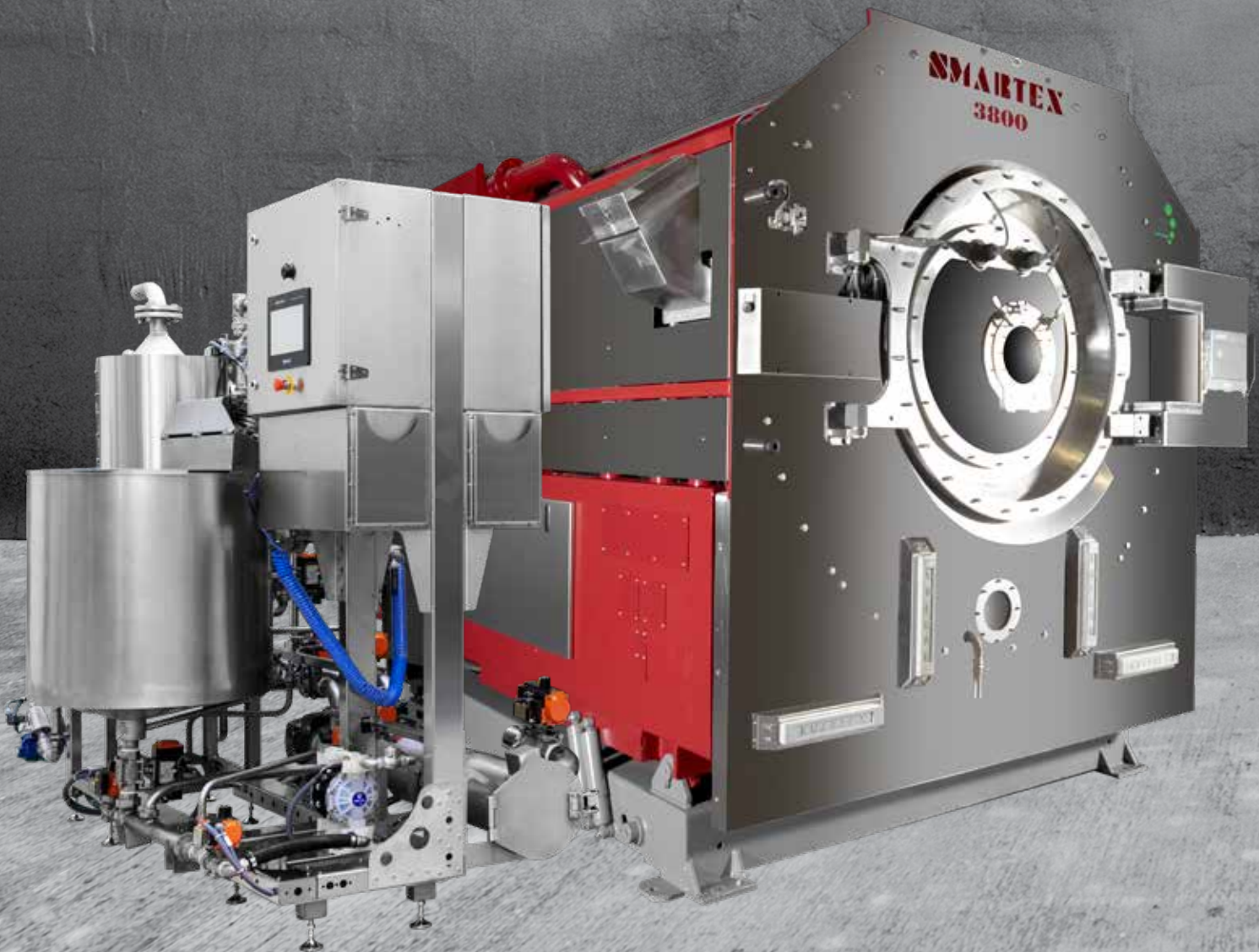
(optional)



SCADA

System Controls And Data Acquisition System

(optional)



Belt-Pulley Drive System



POLYRIB TECHNOLOGY

%50

less water, steam, chemical, waste water

%40

more loading allowance



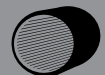
100 RPM PRE-EXTRACTION

(optional)



TOLKAR ULTIMATE CONTROL SYSTEM

remote access enables updates of parameters or versions, recipe preparation, upload/download, recipe transfer to desired machines
USB programme and parameter transfer between machines
100 recipes, 100 steps reporting amount of dyed garments, consumption of water, electric, steam, loading and operating times (Optional)

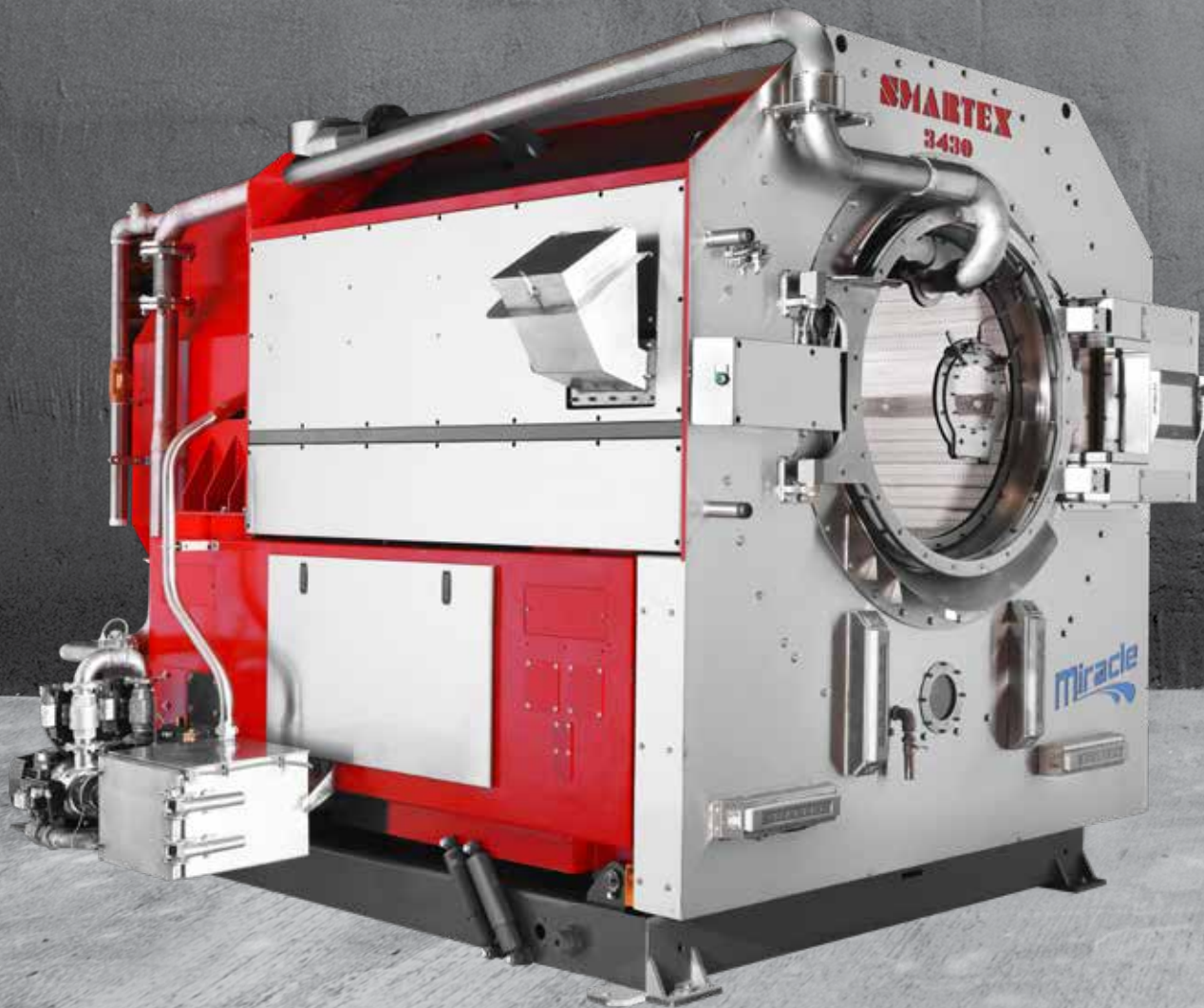




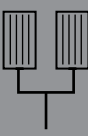
316 L INNER DRUM







		Smartex Elite 1400	Smartex Elite 1800	Smartex Elite 2400	Smartex Elite 3800	Smartex Elite 5300
Drum Volume	(lt)	1.400	1.800	2.400	3.800	5.300
Drum Diameter	(mm)	1.070	1.240	1.480	1.720	1.720
Drum Depth	(mm)	1.294	1.255	1.420	1.645	2.270
Max. Sikma Devri	(rpm)	100	100	100	100	100
Motor Power	(Kw)	7,5	11	15	18	22
Width	(mm)	1.530	1.750	1.915	2.175	2.200
Depth	(mm)	2.145	2.480	2.275	2.550	3.650
Height	(mm)	2.030	2.120	2.530	2.730	2.250
Height in Tilted Position	(mm)	2.370	2.461	2.845	3.110	3.650
Weight	(Kg)	2.230	2.980	4.530	6.300	7.360

1:3-1:3,5
LIQUOR RATIO
dry garments

PLC Controlled	CHEMICAL DYE KITCHEN WITH 1 TANK	HEAT EXCHANGER	RAIN FALL DYEING EFFECT	AUTOMATIC LOADING DOOR	AUTO REPORT	BACKWARDS TILTING	SCADA
10" Touch Screen Panel	Main tank with indirect heating	Indirect Steam Heating		(optional)	Reporting of Consumptions and productivity	Easy and Automatic Loading	System Controls And Data Acquisition System
					(optional)	(optional)	(optional)



 <p>1:2- 1:2,5 LIQUOR RATIO dry garments</p>	 <p>POLYRIB ECODRUM TECHNOLOGY 50% less water, chemicals, steam and waste water</p>	<p>50% more loading allowance</p>	 <p>Double Pump Circulation & Drain</p>
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 <p>SPIN WASH SYSTEM Washing with Spin wash Jet Spraying Technology Prevents all crease marks, abrasion and undesired mechanical effects. Sustainable washing technology.</p>	 <p>400 G EXTRACTION FORCE 20% less drying energy and time</p>	 <p>SMART BALANCING Totally vibration free extraction eliminates the risk of damages</p>	 <p>TOLKAR ULTIMATE CONTROL SYSTEM remote access enables updates of parameters or versions, recipe preparation, upload/download, recipe transfer to desired machines USB programme and parameter transfer between machines 100 recipes, 100 steps reporting amount of dyed garments, consumption of water, electric, steam, loading and operating times (Optional)</p>	 <p>PLC Controlled 10" Touch Screen Panel</p>	 <p>Suitable for stone washing applications with reinforced construction</p>
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Tolkar reserves changing the technical specifications of the machines due to technological necessities without prior notice



SMARTEX MIRACLE

High Speed Washer Extractors

High Speed Stone Washer Extractors

1200 - 1500 - 2250 - 3430 - 4200 - 5000 lt



		Miracle 1200	Miracle 1500	Miracle 2250	Miracle 3430	Miracle 4200	Miracle 5000
Drum Volume	(lt)	1.125	1.480	2.280	3.430	4.200	4.800
Drum Diameter	(mm)	1.070	1.240	1.480	1.720	1.720	1.720
Drum Depth	(mm)	1.294	1.255	1.420	1.530	1.900	2.120
Max. G Force	(G)	400	400	400	400	360	400
Motor Power	(Kw)	18,5	22	30	18,5	22	22
Width	(mm)	1.530	1.750	1.915	2.175	2.700	2.200
Depth	(mm)	2.145	2.480	2.275	2.550	3.600	3.650
Height	(mm)	2.030	2.120	2.530	2.730	2.765	2.550
Height in Tilted Position	(mm)	2.370	2.461	2.845	3.110	3.145	3.650
Weight	(Kg)	2.230	2.980	4.530	6.300	6.670	7.360



Easily cleanable lint & stone filter



316 L INNER DRUM
Engineered electro polished drum for special applications
(optional)



316 L 3+3 mm removable drum totally welding free Inner Drum for stone wash purposes



Suitable for all ozone applications
(optional)



Smart Flow wash applications
(optional)



AUTO REPORT
Reporting of Consumptions and productivity
(optional)



SCADA System Controls and Data Acquisition System
(optional)



SCADA System Controls and Data Acquisition System
(optional)



BACKWARDS TILTING
Easy and Automatic Loading
(optional)



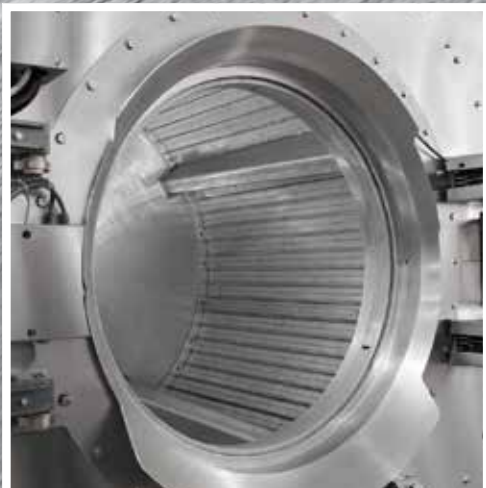
STONE WASH & POLYRIB DRUM

Engineered drum design with reinforced removable PolyRib inner lining performs at 1:2 L/R for maximum stone effects. All other Miracle advantages are standard.

CLEANABLE FILTER

OZON (O₃) APPLICATION

Designed to perform with wet and dry ozone applications for most of the treatment processes.





SMART FLOW

Nono bubbles spraying technology saves upto 95% from water, 90 % from chemicals and 100% from heating energy. Fully consistent and sustainable production with in built dosing pumps those are controllable from machine panel. Multiple chemical dosing with double pump operation.

Position of nozzles with pneumatic covers for smart flow and other operations
 No leakage risk from nozzles into the drum





**1:3
LIQUOR
RATIO**
dry
garments



POLYRIB SYSTEM
50%
less water,
chemicals,
steam and
waste water

40%
more loading
allowance



**TOLKAR ULTIMATE
CONTROL SYSTEM**

remote access enables updates of parameters or versions, recipe preparation, upload/download, recipe transfer to desired machines
USB programme and parameter transfer between machines
100 recipes, 100 steps



**PLC
Controlled**

**10"
Touch Screen
Panel**



**100
RPM**

**PRE-
EXTRACTION**
(optional)

		Smartex Elite 1400	Smartex Elite 1800	Smartex Elite 2400	Smartex Elite 3800	Smartex Elite 5300
Drum Volume	(lt)	1.400	1.800	2.400	3.800	5.300
Drum Diameter	(mm)	1.070	1.240	1.480	1.720	1.720
Drum Depth	(mm)	1.294	1.255	1.420	1.645	2.270
Max. Extraction	(rpm)	100	100	100	100	100
Motor Power	(Kw)	7,5	11	15	18	22
Width	(mm)	1.530	1.750	1.915	2.175	2.200
Depth	(mm)	2.145	2.480	2.275	2.550	3.650
Height	(mm)	2.030	2.120	2.530	2.730	2.250
Height in Tilted Position	(mm)	2.370	2.461	2.845	3.110	3.650
Weight	(Kg)	2.230	2.980	4.530	6.300	7.360



RAIN FALL WASHING EFFECT



3+3 mm INNER DRUM

Easy replacement of the protection sheet
Totally welding free



AUTO REPORT

Reporting of Consumptions and productivity

(optional)



AUTOMATIC LOADING DOOR

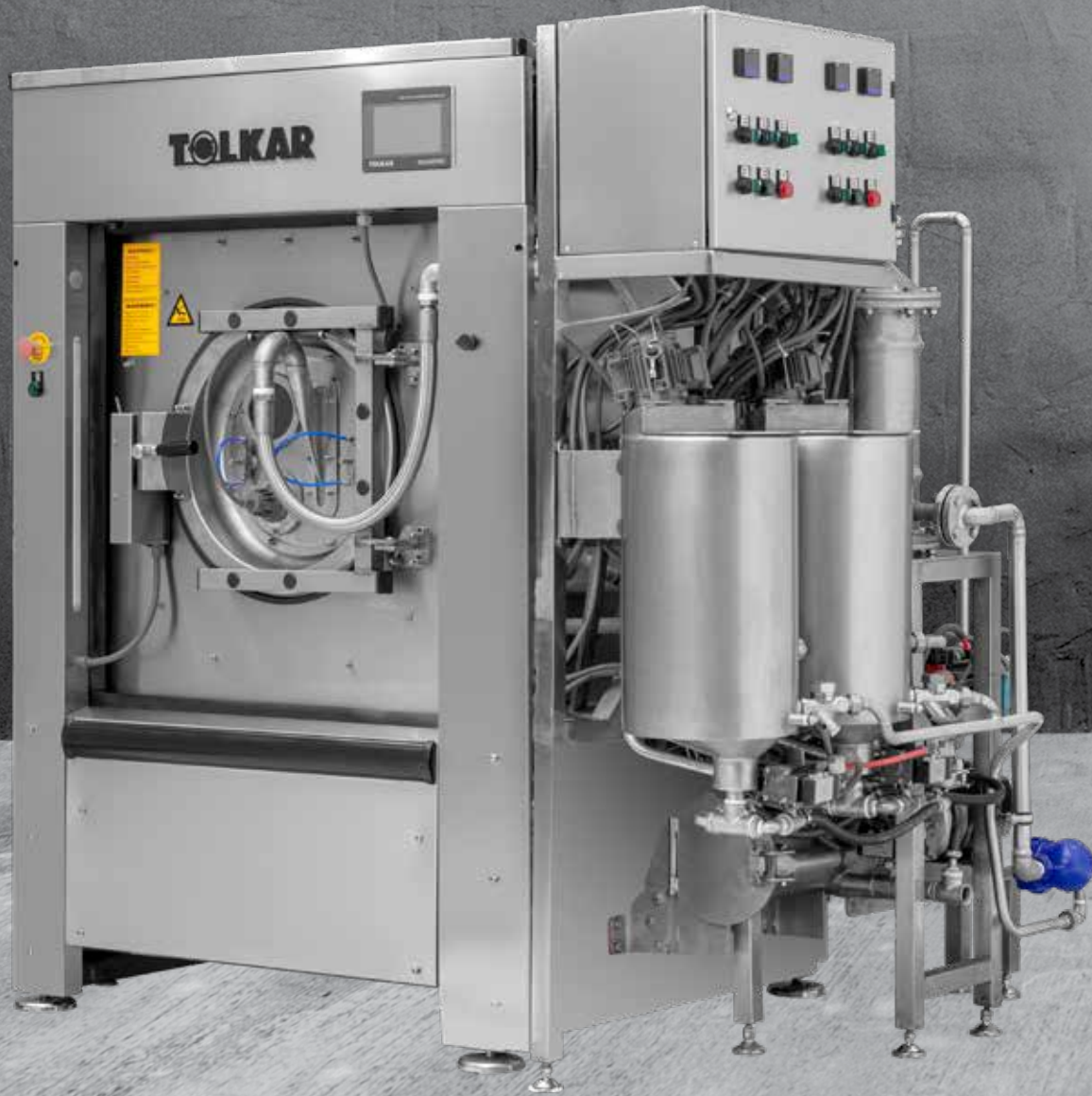
(optional)




BACKWARDS TILTING

Easy and Automatic Loading

(optional)



 **1:2-1:2,5**
LIQUOR
RATIO
dry garments

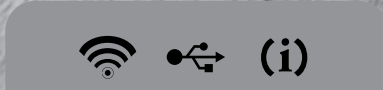
 **POLYRIB ECDRUM SYSTEM**
70% less water, chemicals, steam and waste water
20% less dyes
40% less electric energy



SPIN DYE SYSTEM
High speed dyeing with Spin Dye Jet Spraying Technology Prevents all crease marks, abrasion and undesired mechanical effects.
Sustainable dyeing technology.



300 G
EXTRACTION
FORCE



TOLKAR ULTIMATE CONTROL SYSTEM
remote access enables updates of parameters or versions, recipe preparation, upload/download, recipe transfer to desired machines
USB programme and parameter transfer between machines
100 recipes, 100 steps
reporting amount of dyed garments, consumption of water, electric, steam, loading and operating times (Optional)



PLC
Controlled

10"
Touch
Screen
Panel

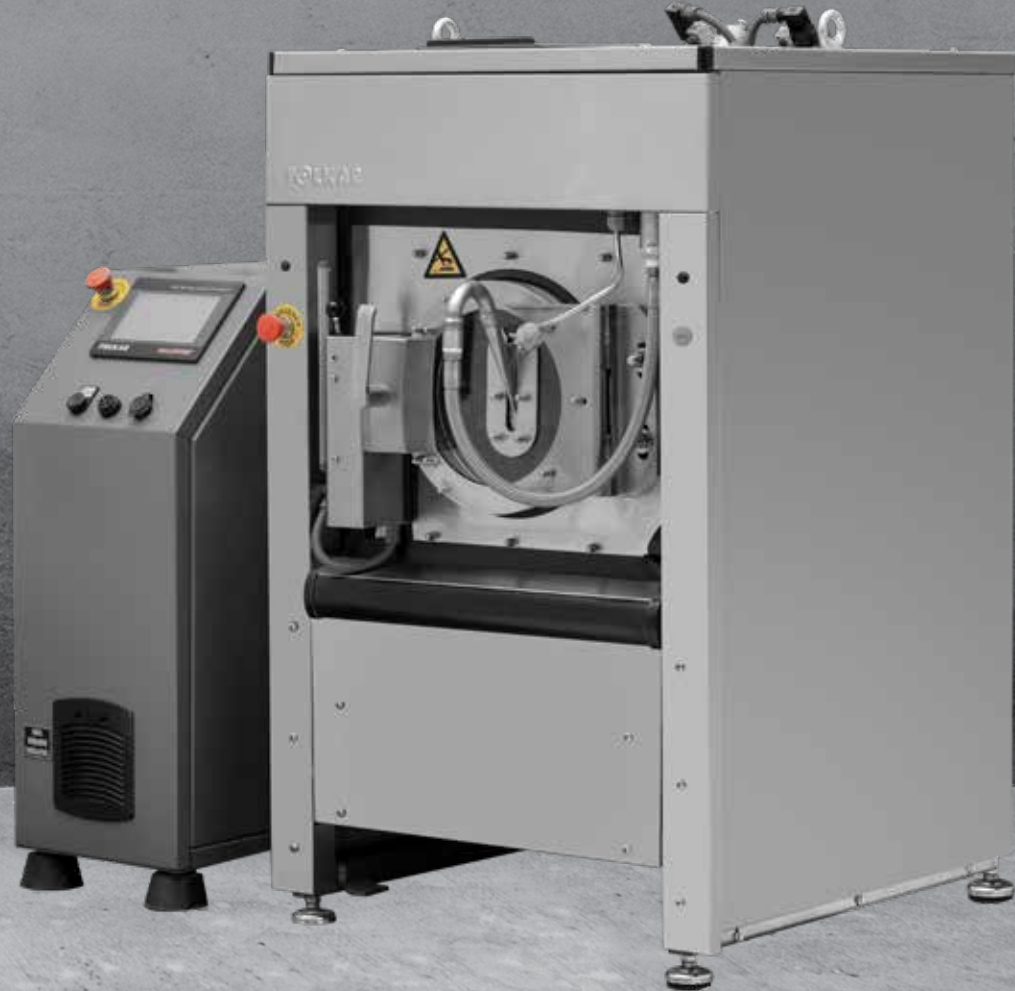


316 L
INNER
DRUM



TOLKAR MIRACLE Sample Dyeing Machines

40 - 100 - 200 - 300 - 400 - 500 - 600 - 800 lt



		MIRACLE GD 40	MIRACLE GD 100	MIRACLE GD 200	MIRACLE GD 300	MIRACLE GD 400	MIRACLE GD 500	MIRACLE GD 600	MIRACLE GD 800
Drum Volume	(lt)	40	100	208	300	400	500	600	800
Drum Diameter	(mm)	420	610	762	762	915	915	1.092	1.320
Drum Depth	(mm)	300	345	460	662	610	760	642	590
Motor Power	(Kw)	1,5	1,5	3	4	5,5	7,5	11	15
Width	(mm)	715	825	990	990	1.180	1.180	1.460	1.710
Depth	(mm)	980	860	1.030	1.300	1.345	1.525	1.590	2.060
Height	(mm)	1.060	1.190	1.450	1.450	1.780	1.780	2.000	1.730
Weight	(Kg)	280	350	595	770	1.125	1.230	2.250	2.990



HEAT EXCHANGER
Indirect Steam Heating



SOVEREIGN RECIPE ACCORDANCE
Sample recipe ---> Bulk recipe
Direct recipe transfer from sample to bulk machines without any correction



SINGLE CHEMICAL/ DYE INLET
(2nd and 3rd Tank opsiyonel)



Fully Stainless Steel Outer Structure



AUTO REPORT
Reporting of Consumptions and productivity
(optional)



SCADA
System Controls And Data Acquisition System
(optional)



TOLKAR ULTIMATE CONTROL SYSTEM

remote access enables updates of parameters or versions, recipe preparation, upload/download, recipe transfer to desired machines

USB programme and parameter transfer between machines

100 recipes

reporting amount of dyed garments, consumption of water, electric, steam, loading and operating times (Optional)



300 G EXTRACTION FORCE



316 L INNER DRUM



HEAT EXCHANGER

Indirect Steam Heating



Fully Stainless Steel Outer Structure



PLC Controlled

10" Touch Screen Panel



AUTO REPORT

Reporting of Consumptions and productivity

(optional)

		ELITE 100	ELITE 200	ELITE 300	ELITE 400	ELITE 500	ELITE 600	ELITE 800
Drum Volume	(lt)	100	208	300	400	500	600	800
Drum Diameter	(mm)	610	762	762	915	915	1.092	1.320
Drum Depth	(mm)	345	460	662	610	760	642	590
Motor Power	(Kw)	1,5	3	4	5,5	7,5	11	15
Width	(mm)	825	990	990	1.180	1.180	1.460	1.710
Depth	(mm)	860	1.030	1.300	1.345	1.525	1.590	2.060
Height	(mm)	1.190	1.450	1.450	1.780	1.780	2.000	1.730
Weight	(Kg)	350	595	770	1.125	1.230	2.250	2.990



SOVEREIGN RECIPE ACCORDANCE

Samlpe recipe ---> Bulk recipe
Direct recipe transfer from sample
to bulk machines without any
correction



SINGLE CHEMICAL/ DYE INLET

(2nd and
3rd Tank
optional)



POLYRIB TECHNOLOGY

%50
less water,
chemical,
steam and
waste water

%40
less
electricity



SCADA
System
Controls And
Data
Acquisition
System

(optional)



RAIN FALL DYEING EFFECT



SPIN WASH SYSTEM

High speed washing with Spin Dye Jet Spraying Technology Prevents all crease marks, abrasion and undesired mechanical effects.

Sustainable washing technology.



300 G EXTRACTION FORCE



TOLKAR ULTIMATE CONTROL SYSTEM

remote access enables updates of parameters or versions, recipe preparation, upload/download, recipe transfer to desired machines
USB programme and parameter transfer between machines
100 recipes, 100 steps reporting amount of dyed garments, consumption of water, electric, steam, loading and operating times (Optional)



PLC Controlled

10" Touch Screen Panel



Fully Stainless Steel Outer Structure



SINGLE MAIN CHEMICAL INLET TANK




TOLKAR MIRACLE


Sample Washer Extractor

40 - 100 - 200 - 300 - 400 - 500 - 600 - 800 lt

		MIRACLE 40	MIRACLE 100	MIRACLE 200	MIRACLE 300	MIRACLE 400	MIRACLE 500	MIRACLE 600	MIRACLE 800
Drum Volume	(lt)	40	100	208	300	400	500	600	800
Drum Diameter	(mm)	420	610	762	762	915	915	1.092	1.320
Drum Depth	(mm)	300	345	460	662	610	760	642	590
Motor Power	(Kw)	1,5	1,5	3	4	5,5	7,5	11	15
Width	(mm)	715	825	990	990	1.180	1.180	1.60	1.710
Depth	(mm)	980	860	1.030	1.300	1.345	1.525	1.590	2.060
Height	(mm)	1.060	1.190	1.450	1.450	1.780	1.780	2.000	1.730
Weight	(Kg)	280	350	595	770	1.125	1.230	2.250	2.990









**1:2-1:3
LIQUOR
RATIO**
dry garments



POLYRIB ECODRUM TEKNOLOJİSİ
50%
less water,
chemicals, steam
and waste water

40%
less
electric energy

O₃						
Suitable for all ozone applications (optional)	Smart bubble suitable for smart flow nano bubbles spray (optional)	Suitable for stone washing applications with reinforced construction (optional)	Easily cleanable lint & stone filter	316 L 3+3 mm removable drum Totally welding free (optional)	AUTO REPORT Reporting of Consumptions and productivity (optional)	SCADA System Controls And Data Acquisition System (optional)



TOLKAR ULTIMATE CONTROL SYSTEM

remote access enables updates of parameters or versions, recipe preparation, upload/download, recipe transfer to desired machines

USB programme and parameter transfer between machines

100 recipes

reporting amount of dyed garments, consumption of water, electric, steam, loading and operating times (Optional)



250 G EXTRACTION FORCE



3 mm POLYRIB INNER DRUM



PLC Controlled

7" Touch Sreen Panel

		ELITE 100	ELITE 200	ELITE 300	ELITE 400	ELITE 500	ELITE 600	ELITE 800
Drum Volume	(lt)	100	208	300	400	500	600	800
Drum Diameter	(mm)	610	762	762	915	915	1.092	1.320
Drum Depth	(mm)	345	460	662	610	760	642	590
Motor Power	(Kw)	1,5	3	4	5,5	7,5	11	15
Width	(mm)	825	990	990	1.180	1.180	1.460	1.710
Depth	(mm)	860	1.030	1.300	1.345	1.525	1.590	2.060
Height	(mm)	1.190	1.450	1.450	1.780	1.780	2.000	1.730
Weight	(Kg)	350	595	770	1.125	1.230	2.250	2.990

**1:3-1:4
LIQUOR
RATIO**
dry garments

POLYRIB ECODRUM TEKNOLOJİSİ

40% less water, chemicals, steam and waste water	30% less electric energy
--	---------------------------------------

**316 L
INNER
DRUM**
(optional)

**Fully
Stainless
Steel
Outer
Structure**

**SOVEREIGN RECIPE
ACCORDANCE**
Sample recipe ---> Bulk recipe
Direct recipe transfer from sample
to bulk machines without any
correction

**SINGLE
MAIN
CHEMICAL
INLET
TANK**

**AUTO
REPORT**
Reporting of
Consumptions
and
productivity
(optional)



TOLKAR ULTIMATE CONTROL SYSTEM

remote access enables updates of parameters or versions, recipe preparation, upload/download, recipe transfer to desired machines

USB programme and parameter transfer between machines

100 recipes

reporting amount of dyed garments, consumption of water, electric, steam, loading and operating times (Optional)



**250 G
EXTRACTION
FORCE**



**5 mm 304
INNER
DRUM**



**316 L
INNER
DRUM**

(optional)



**PLC
Controlled**

7" Touch
Screen Panel

		HYDRA 100	HYDRA 200	HYDRA 300	HYDRA 400	HYDRA 500	HYDRA 600	HYDRA 800
Drum Volume	(lt)	100	208	300	400	500	600	800
Drum Diameter	(mm)	610	762	762	915	915	1.092	1.320
Drum Depth	(mm)	345	460	662	610	760	642	590
Motor Power	(Kw)	1,5	3	4	5,5	7,5	11	15
Width	(mm)	825	990	990	1.180	1.180	1.460	1.710
Depth	(mm)	860	1.030	1.300	1.345	1.525	1.590	2.060
Height	(mm)	1.190	1.450	1.450	1.780	1.780	2.000	1.730
Weight	(Kg)	350	595	770	1.125	1.230	2.250	2.990



**Fully
Stainless
Steel
Outer
Structure**



**SOVEREIGN RECIPE
ACCORDANCE**

Samlpe recipe ---> Bulk recipe
Direct recipe transfer from sample
to bulk machines without any
correction



**SINGLE
MAIN
CHEMICAL
INLET
TANK**



**AUTO
REPORT**

Reporting of
Consumptions
and
productivity

(optional)



HEAT RECOVERY SYSTEM
(Optional)
SAVES 20-25%
from Drying Time and Energy




TOLKAR ULTIMATE CONTROL SYSTEM

remote access enables updates of parameters or versions, recipe preparation, upload/download, recipe transfer to desired machines

USB programme and parameter transfer between machines

100 programmable recipes

reporting amount of dyed garments, consumption of water, electric, steam, loading and operating times (Optional)



STAINLESS STEEL SERPANTINES

10 bars operating pressure for maximum efficiency
(longer life time)




HUMIDITY CONTROLLED DRYING



COOL DOWN Cooling System

Prevents wrinkles and hardening



Bidirectional ROTATION



PLC Controlled

7" Touch Screen Panel



**GAS + STEAM
HEATING
SYSTEM**
(Optional for
Models
4069 - 5070)



ALL MODEL WITH
**GAS HEATING
OPTION**



**FORWARD
TILTING FOR EASY
UNLOADING**
(Standard with models
2200 - 2700
4069 - 5070)



**304
INNER
DRUM**
**316 L
INNER
DRUM**
(optional)



**POLAR
SYSTEM**
Direct Steam
spraying onto the
garments

(optional)



**INVERTER
CONTROLLED**



**BACKWARDS
TILTING**
Easy and
automatic
loading

(optional)

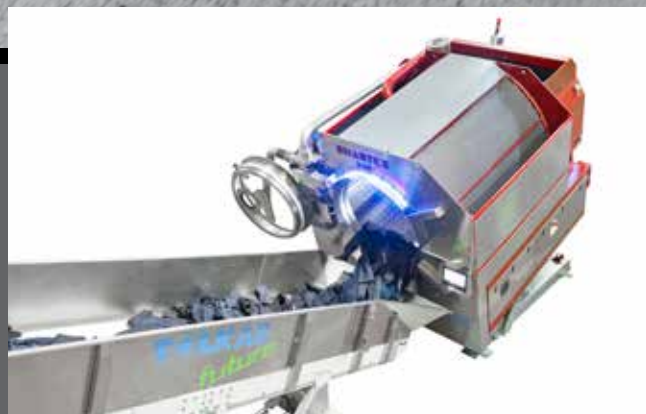
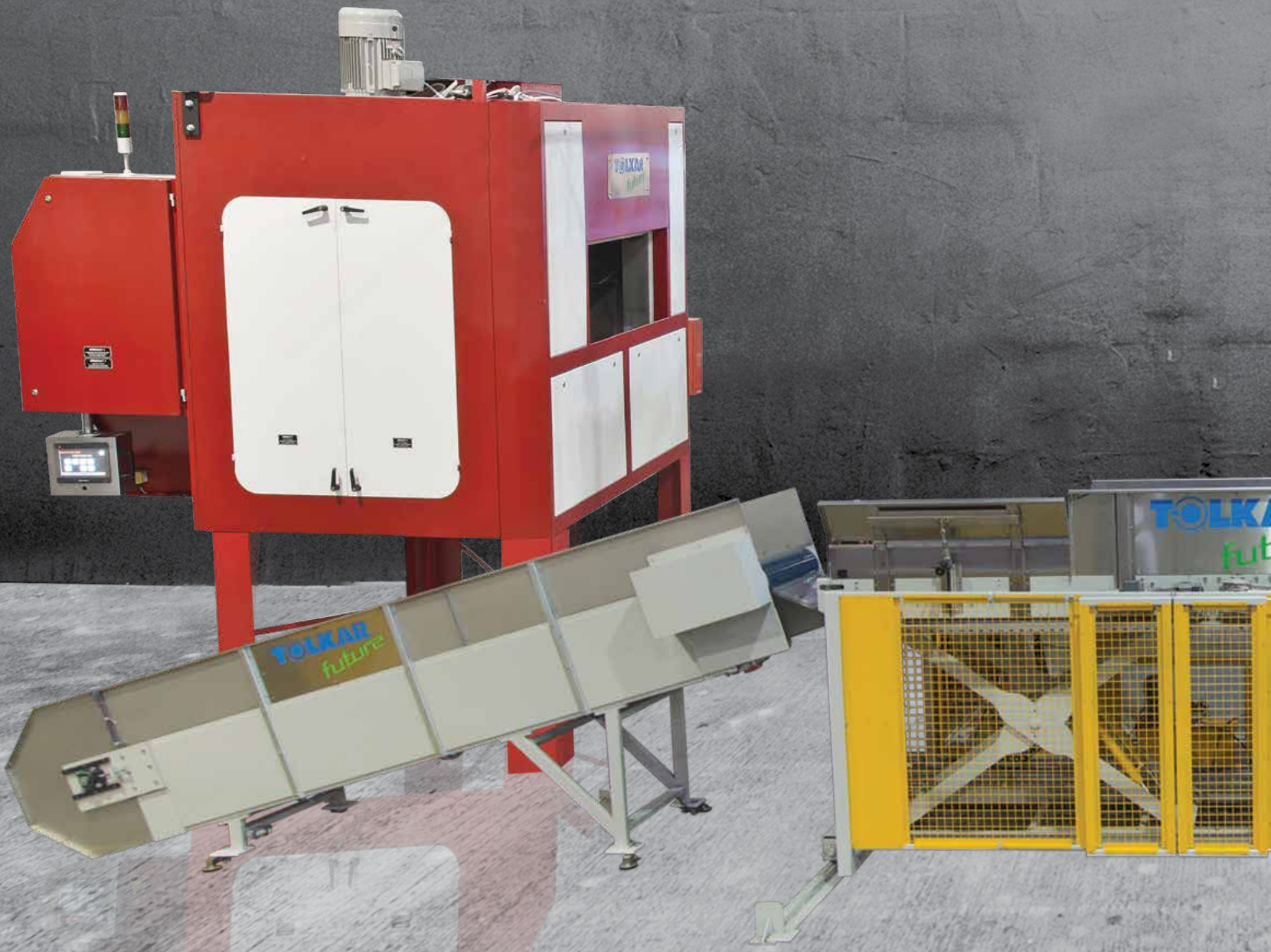
FULLY STAINLESS STEEL OUTER CABINET
(optional)



		CARINA 201	CARINA 305	CARINA 405	CARINA 500	CARINA 605	CARINA 805	CARINA 1000
Heating Type		Electric	Elc/Steam/Gas	Elc/Steam/Gas	Elc/Steam/Gas	Elc/Steam/Gas	Elc/Steam/Gas	Elc/Steam/Gas
Capacity 1/20-1/15	(Kg)	10/14	15/20	20/27	25/33	30/40	40/53	50/66
Drum Volume	(lt)	201	305	405	500	605	800	1.000
Drum Motor Power	(Kw)	0,37	0,75	0,75	0,75	0,75	1,1	1,1
Fan Motor Power	(Kw)	0,75	0,75	0,75	0,75	0,75/1,5/0,75	1,5/2,2/1,5	2,2/3/2,2
Electric Thermal Power	(Kw)	12	14	14	24,5	21	42	63
Steam Consumption	(Kg/h)	-	38	38	38	44	60	81
Gas Thermal Power	(Kcal/h)	-	17.325	18.150	23.100	24.750	36.300	37.125
Air Flow	(m³/h)	1.300	1.300	1.300	1.300	1.500	3.900	3.900/4.500/4.500
Width	(mm)	825	970	970	970	1.040	1.040	1.355/1.420/1.360
Depth	(mm)	915	870	1.020/1.100	1.180/1.240/1.240	1.215	1.650	1.500
Height	(mm)	955	1.650/1.780/ 1.790	1.650/1.780/ 1.790	1.650/1.780/1.790	1.780/1.860/1.910	1.860	2.130/2.250/2.380
Weight	(Kg)	140	280	285	325	365	450	700



		CARINA 1200	Carina 1500	CARINA 1500*	CARINA 2200	CARINA 2700	CARINA 4069	CARINA 5070
Heating Type		Elk./Buh./Gaz	Elk./Buh./Gaz	Elk./Buh./Gaz	Buhar/Gaz	Buhar/Gaz	Buhar/Gaz	Buhar/Gaz
Capacity 1/20-1/15	(Kg)	60/80	75/100	75/100	110/145	135/180	200/270	250/340
Drum Volume	(lt)	1.200	1.500	1.500	2.200	2.700	4.069	5.070
Drum Motor Power	(Kw)	1,5	1,5	1,5	3	3	5,5	5,5
Fan Motor Power	(Kw)	1,5/2,2	2,2/3/3	3/3	4x1,1/2x3	4x1,1/2x3	4x3/2x3	4x3/2x3
Electric Thermal Power	(Kw)	63	63	63	-	-	-	-
Steam Consumption	(Kg/h)	95	110	110	160	270	400	500
Gas Thermal Power	(Kcal/h)	41.250	44.550	44.550	99.000	99.000	148.500	181.500
Air Flow	(m ³ /h)	4.500/6.400/6.400	4.500/6.400/6.400	6.400/6.400	6.400/6.400	11.000	22.000/11.000	22.000/11.000
Width	(mm)	1.355/1.420/1.360	1.355/1.420/1.360	1.800/1.800	2.120/2.000	2.104/2.043	2.240/2.290	2.474/2.489
Depth	(mm)	1.700	2.040	2.240	2.293/2.300	2.415/2.411	2.649/2.704	2.780/2.780
Height	(mm)	2.130/2.250/2.380	2.130/2.250/2.380	2.330/2.650	2.671/2.315	2.742/3.203	3.105/3.321	3.224/3.629
Tilted Height	(Kg)	-	-	2.550/2.650	2.698/3.300	2.808/3.328	3.390/3.699	3.484/3.902
Weight	(Kg)	725	900	1.100	1.500	2.300	3.280	3.910





Minimum chemical consumption with automatic chemical dosing

Automatic loading unloading conveyor & shuttle system eliminates the need for labour 90%

Controlled from centralized computer including recipe transfer

Fully man free operation eliminates the risks of failure and mistakes

Accomplished with pass through dryers for quick drying and back side unloading

Accomplished transportation conveyor behind the dryers' for easy transport to finishing (optional)



Front side loading and back side unloading automatically

Compatible with automatic loading unloading systems

Faster drying time within 20-25 min/cycle

Controlled from centralized computer including recipe transfer

		3000	5000
Heating Type		Steam/Gas	Steam/Gas
Capacity	(Kg)	150	250
Drum Volume	(lt)	3.014	5.070
Drum Diameter	(mm)	1.600	1.980
Drum Depth	(mm)	1.500	1.650
Motor Power	(Kw)	5,5	5,5
Fan Motor Power	(Kw)	11	11
Steam Consumption		350	500
Gas Heating Power		175.000	250.000
Air Flow		11.000	22.000
Width	(mm)	2.200	2.543
Depth	(mm)	2.200	3.079
Height	(mm)	4.000	4.446
Weight	(Kg)	3.000	4.910

Tolkar reserves changing the technical specifications of the machines due to technological necessities without prior notice

**Steam & Gas
heated
models**

**PLC controlled
touch screen
panel**

**Humidity
control**

**Infrared
control
drying
(Optional)**



Ozon Tumbler 1000 - 3179

		1000	3179
Drum Volume	(lit)	1000	3179
Drum Diameter	(mm)	1200	1700
Drum Depth	(mm)	800	1400
Loading Capacity	(kg)	1-12	50-90
Width	(mm)	1700	2030
Depth	(mm)	1650	2400
Height	(mm)	2180	2400
Tilted Height	(mm)	-	2720
Weight	(kg)	1000	3000

“Zero”
WATER

“Zero”
CHEMICALS

“Zero”
WASTE

24%
Energy
Saving

Ozone
Bleach
Saving

Back
Staining
Applications

Double
machine
feed
(dry - wet
application)



Ozon Generator 100 - 300 - 1000 - 2000

		100	300	1000	2000
Ozon Capacity	(gr)	100	300	1.000	2.000
Max. Ozon Conc.	(gr/Nm ³)	220	220	220	220
Oxygen Capacity	(m ³)	1,1	3	10	17
Electric Power	(Kw)	3	8	20	38
Application		Dry / Wet			

“Zero”
Back
Staining

Completion of whole recipe in same machine without extra unloading and loading and extracting or handling which eliminates time and labour losses

Ozone sanitization
Random applications via ozonized water spray from nano bubble nozzles
Dry ozone application

Ozone
Bleach
Applications

Undesired effect variations caused by humidity or temperature fluctuations are eliminated

Controlled from washing machine's panel

Sample Hydro Extractor

Libra 12

Capacity	(Kg)	12
Drum Diameter	(mm)	450
Drum Depth	(mm)	400
Inner & Outer Drum		304 L Stainless Steel
Motor Power	(Kw)	2,2
Main Body		Cast Iron
Legs		C 1040 Steel
Door		304 L Stainless Steel and Pneumatic Control
Control Panel		Dor Switch Controlled Operation
Brake System		Manuel Break Pedal
Extraction Speed	(rpm)	900
Water Drain	(inch)	1
Width	(mm)	1.350
Depth	(mm)	825
Height	(mm)	915
Weight	(Kg)	170



**C1040
Legs**



**Manuel
Break
Pedal**



**Door
switch
controlled**



**304 L
Stainless
Steel**



**Inverter
Controlled**



Libra Bulk		Libra 100	Libra 200
Capacity	(Kg)	100	200
Drum Diameter	(mm)	1.200	1.500
Drum Depth	(mm)	450	598
Inner & Outer Drum		304 L Stainless Steel	
Motor Power	(Kw)	11	18,5
Main Body		Cast Iron	
Legs		C 1040 Çelik	
Door		304 L Stainless Steel with Pneumatic Control	
Control Panel		Door Switch Controlled Operation	
Brake System		Manual Break Pedal	
Extraction Speed	(rpm)	700	800
Water Drain	(inch)	2	2
Width	(mm)	1.810	1.800
Depth	(mm)	2.020	2.150
Height	(mm)	1.125	1.350
Weight	(Kg)	1.200	1.500

**Basket Type
Loading**
(Libra 200)

#missionzero

#greenfactory



COUNTRIES WE ARE EXPORTING TO

Afganistan	Kosovo
Albania	Kyrgyzstan
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Armenia	Libya
Aruba	Macedonia
Azerbaijan	Madagascar
Bangladesh	Maldives
Belarus	Mauritius
Belgium	Mexico
Bosna Herzigova	Morocco
Bulgaria	Netherlands
China	Norway
Colombia	Oman
Croatia	Pakistan
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Dominican Republic	Poland
Egypt	Portugal
Egypt	Qatar
England	Romania
Estonia	Russia
Ethiopia	Rwanda
France	Saudi Arabia
Georgia	Serbia
Germany	Slovakia
Ghana	South Africa
Greece	Spain
Greenland	Sri Lanka
Hungary	Sudan
India	Sweden
Indonesia	Syria
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TOLKAR®
SMARTEX®
Technological, Ecological, Economical Differences

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