



## WIWA

## **DuoMix PFP**

## Presentation by





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WIWA DuoMix PFP - 2003

The WIWA DuoMix PFP unit has been developed in a continuous process out of realistic working situations.

- 14 years practical PFP field experience
- Close cooperation with the big coating manufacturers
- -Over 500 units sold world wide
- -60+ in Middle East only





# The WIWA DuoMix PFP unit has been certified by the major PFP manufacturers.









Because of our strong relations with the PFP material producers, we work with them on many projects and are constantly updated on changes in their products.

And with practical situations varying all over the world, we can tailor a unit to meet individual requirements.





#### WIWA DuoMix PFP - 2012



- Ultra-compact multi-purpose frame
- Easier access to components
- Special designed water heating system
- Anti Icing kit









#### Proportioning Unit - Main Pump -

#### **Technical Specification**

Vol. Mix:	2.33:1 *
Pressure ratio:	61:1
Output per cycle:	329 cm3
Max. working pressure:	427 bar
Max. air consumption:	5000 l/min
Voltage:	400V (50/60 Hz)
Electrical rating:	22 kWA

\*more than 1000 alternative mixing ratios available, i.e. 1:1 (@71:1), 2:1 (@58:1)





#### Proportioning Unit - Control Panel -

- Centralized control
- Simple overview of controls
- Easy to make adjustments
- Designed for use while wearing work gloves







#### **Start Timer**



The easy to adjust start timer allows preheating of the unit. The unit is ready to spray when you come to work.





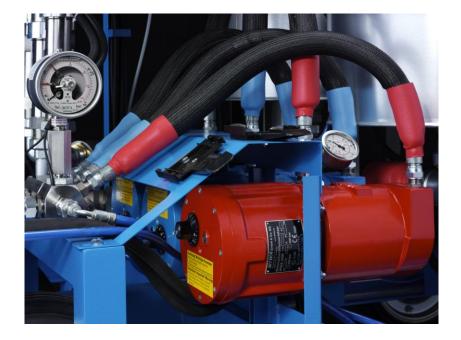
#### **Pressure & Dosing Control**



The pressure gauge shuts off the DuoMix automatically to prevent off-ratio work when a pressure above or below the adjusted tolerance is detected.







#### **Material Heaters**

- Heating of both components using three inline heaters
- Replaceable heat exchangers
- Equipped with pressure gauges







#### Feed Pumps and Ram Presses

- Low-maintenance filling station with robust twin-post lifts
- Large feed pumps for lower wear and tear
- Low noise operating air motor







#### Pressure Tanks and Agitators

- Double-wall insulated pressure tanks with highly efficient water heating
- Smooth running agitators with optimized mixing paddles
- Reliable pneumatically-operated level sensors for automatic refilling of the tanks







#### Flushing Unit and Water Heating Tanks

- Separate water heating circuits for the tanks and hose package
- Regulator for controlling the temperature of the tanks
- Start-up timer for timesaving preheating of the unit
- Automatic refilling of flush water tank







#### Material Outlet Manifold

- Easy access to hose connections
- Valves for internal circulation (rapid heating at low pressure for less pump wear)





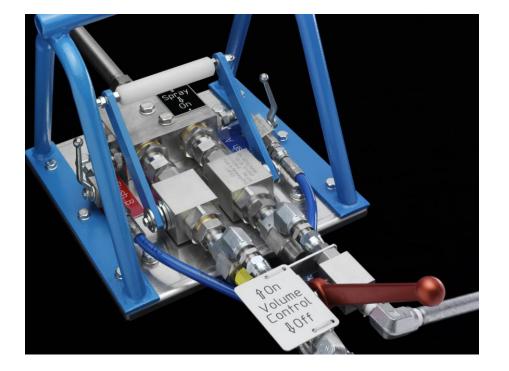


#### Hose Package

- High-volume hoses minimize pressure loss
- Insulated against heat loss
- Hose package with heating system is explosion-proof
- Circulation through the hose package for maintaining the temperature of the material
- Hose length up to 90 mtrs.







#### **External Mixing Unit**

- Compact and easy to operate
- Large valves and passages
- Ratio check valves at mixer for maximum accuracy





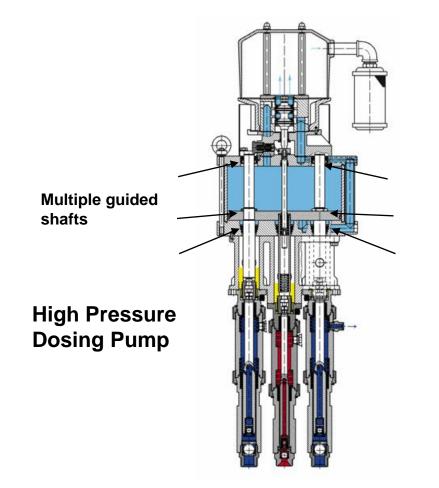


#### Spray Gun WIWA 500 PFP

- Long-proven WIWA design
- Large diameter swivel for high-volume applications







#### **Mechanical Structure**

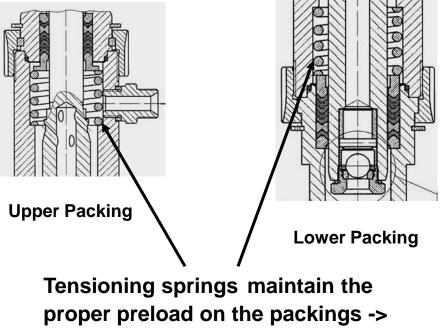
The WIWA DuoMix air motor has multiple precision guided shafts connecting the piston plate directly to the material pumps, which prevents the piston plate from tilting

-> lower wear and maintenance





Material Pumps w/ Fixed Upper & Lower Packings



Tensioning springs maintain the proper preload on the packings -> no manual adjustment necessary, low wear





#### **Material Pump - Wear Parts**

The double piston has a thick, extrahard chromed coating for long life.

**Double Piston** 

Because the packings are fixed, the PUMP CYLINDER is a NON-wearing part



Spare parts prices (Please compare)

Material pump:

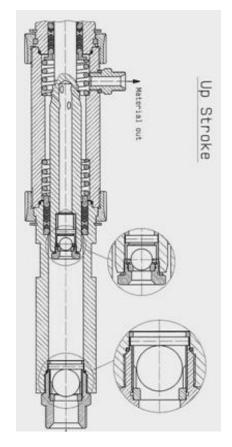
Material pump repair kit:

**Piston:** 



#### Material Pump Combinations

493	2	50	50	0.00	110	137	150,00
433	2	71,75	71,5	2,00	75	93	215.00
434	2	72,57		2,01	75		
435			71,75	2,02	75	93	216,89
	2	72,57	71,5	2,03		93	216,64
497	2	69	68	2,03	79	98	206,00
438	2	34	32	2,04	58	72	280,00
499	2	79,00	77	2,05	69	86	235,00
500	2	40,5	39,5	2,05	134	167	120,50
501	2	68	66	2,06	80	100	202,00
502	2	92	83	2,06	59	73	273,00
503	2	138	134	2,07	39	49	410,00
504	2	184,5	179	2,07	29	36	548,00
505	2	46	44,5	2,07	118	147	136,50
506	2	71,5	63	2,07	76	95	212,00
507	2	51	50	2,08	108	134	152,00
508	2	54,00	52	2,08	101	126	160,00
503	2	63,5	61	2,08	86	107	188,00
510	2	71,75	63	2,08	76	95	212,50
511	2	33	95,27	2,08	55	68	293,27
512	2	66	63,5	2,08	83	103	195,50
513	2	42	40,5	2,09	130	161	124,50
514	2	39,5	38	2,09	139	172	117,00
515	2	63	66	2,09	79	99	204,00
516	2	85	79	2,09	66	82	249,00
517	2	82,5	79	2,09	66	82	244,00
518	2	89	85	2,10	61	76	263,00
519	2	72.57	63	2,10	76	94	214,14
520	2	94	89	2,10	58	72	277,00
521	2	71,5	68	2,11	77	95	211,00
522	2	44.5	42	2,11	123	153	131,00
523	2	33	94	2,11	55	69	292,00
524	2	134	127	2,11	41	51	395,00
525	2	71,75	68	2,11	76	95	211,50
526	2	61	58	2,12	90	112	180,00
527	2	50	46	2,12	112	140	146,00
528	2	77	72,57	2,12	71	89	226,57
529	2	54.00	51	2,13	102	127	159,00
530	2	58	54	2,14	96	119	170,00
531	2	52	54	2,14	96	119	158,00
532	2	72.57	68	2,14	76	94	213,14
533	2	68	63,5	2,14	81	101	199,50
534	2	42	39,5	2,14	131	162	123,50
535	2	40,5	38	2,14	136	170	119,00
536	2	85	77	2,14	67	83	247.00
537	2	82,5	77	2,14	67	83	242,00
538	2	77	71,75	2,15	72	89	225,75
539	2	33	32	2,15	56	69	290,00
540	2	77	71,5	2,15	72	89	225,50
541	2	66	61	2,16	84	104	193,00
542	2	71,5	66	2,10	77	96	209,00
543	2	89	82,5	2,17	62	77	260,50
544	2	32	85	2,17	60	75	269,00
545	2				77	96	
245	-	71,75	66	2,17	11	36	209,50

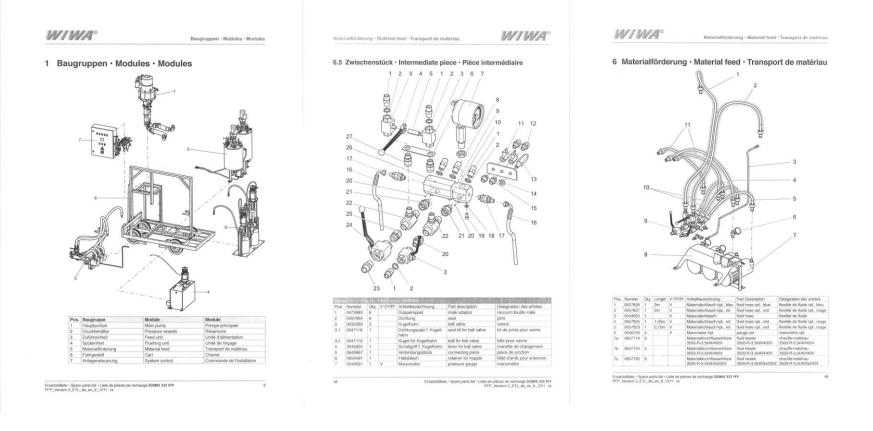


More than 40 pump sizes are available. This enables more than 1000 different interchangeable mixing ratios between 0.1:1 and 14:1



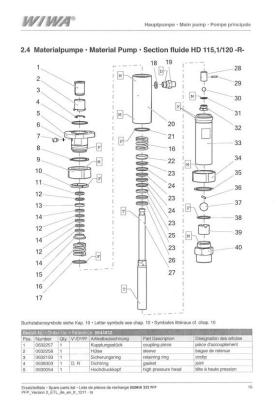


#### Spares lists with detailed drawings for easy identification of parts





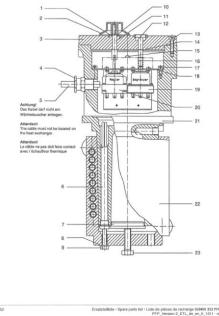




Materialförderung · Material feed · Transport de matériau

6.2 Materialdurchflusserhitzer · Fluid Heater · Chauffre-matériaux WIWA 3500-R-3,5kW/440V

WIWA



Spare parts are not limited to complete assemblies, i.e. the heater is available in individual parts to lower your repair costs.









#### WIWA "Made in Germany"

The quality of WIWA equipment is also in its own hands, with production being done fully in Germany at the highest quality control standards.

Customer experience with competitive as well as WIWA units has helped us to design our units for maximum efficiency and minimal service requirements.







The design of the WIWA DuoMix PFP minimizes the use of electronic components wherever possible for flexible, low problem use around the globe under severe jobsite conditions.

The unit is easily repaired on site, minimizing costly downtime.







By choosing the WIWA DuoMix PFP, the operator can take on projects knowing he has a unit which can be fully relied upon to successfully and economically apply intumescent fire protective coatings which meet the highest standards, for example in the offshore & marine, oil & gas, building and paper industries.