

# FLASHTECH® TERMINAL AUTOMATION SYSTEM REFERENCE LIST



TERMINAL	LUKOIL Aliğa Terminal	LUKOIL Dörtöl Terminal	LUKOIL Hopa Terminal	LUKOIL İzmit Terminal
Top Loading	Number of Arms: 8 Accuload III	Number of Arms: 8 Accuload III	X	Number of Arms: 8 Accuload III STD
Bottom Loading	X	X	X	X
Injection	MonoBlok II 2 Unit MicroBlender	MonoBlok II 2 Unit MicroBlender	1 Unit MonoBlok II (National Marker)	8 Unit MonoBlok II 2 Unit MicroBlender
Marine Loading	X	X	X	X
Pipeline Loading	X	X	X	X
Rail Car Loading	X	X	X	X
Other Applications	X	X	X	X
Database	Microsoft SQL Server 2000	Microsoft SQL Server 2000	Microsoft SQL Server 2000	Microsoft SQL Server 2000
Interfaces	Weigh Scale	Weigh Scale	OMRON PLC	OMRON PLC Weigh Scale
Application Date	October 2003	June 2006	August 2006	February 2007





TERMINAL	LUKOIL Mersin Terminal	LUKOIL Samsun Terminal	LUKOIL Kırıkkale Terminal	EUROIL Mersin Terminal
Top Loading	Number of Arms: 8 Accuload III	Number of Arms: 8 Accuload III	Number of Arms: 8 Accuload III	Number of Arms: 8 Accuload III
Bottom Loading	X	X	X	X
Injection	MonoBlok II 2 Unit MicroBlender	8 Unit Monoblok II (National Marker) 2 Unit MicroBlender	MonoBlok II 2 Unit MicroBlender	2 Unit Minipak3000
Marine Loading	X	X	X	X
Pipeline Loading	X	X	X	X
Rail Car Loading	X	X	X	X
Other Applications	X	X	X	X
Database	Microsoft SQL Server 2000	X	Microsoft SQL Server 2000	X
Interfaces	X	X	Weigh Scale	X
Application Date	August 2004	2008	June 2003	2008 -





	<b>EXXON Mobil</b>	<b>ÇUMRA ŞEKER FABRİKASI</b>	<b>MOTOR OIL HELLAS NEA KARVALI / GREECE</b>	<b>OPET Aliğa Terminal</b>
TERMINAL	<b>X</b>	Number of Arms: 3 Accuload III	<b>X</b>	Number of Arms: 12 Accuload III
Top Loading	<b>X</b>	<b>X</b>	Number of Arms: 10 Accuload III	Number of Arms:4 Accuload III
Bottom Loading	<b>X</b>	3 Unit Microblender	<b>X</b>	Mono-Block II National Merker
Injection	Number of Arms: 2 Accuload III	<b>X</b>	<b>X</b>	<b>X</b>
Marine Loading	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
Pipeline Loading	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
Rail Car Loading	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
Other Applications	<b>X</b>	<b>X</b>	Gate Control	<b>X</b>
Database	Jet Database	Microsoft SQL Server 2005	Microsoft SQL Server 2005	Oracle
Interfaces	<b>X</b>	<b>X</b>	<b>X</b>	SAP Weigh Scale
Application Date	<b>December 2001</b>	<b>March 2007</b>	<b>July 2008</b>	<b>April 2007</b>



TERMINAL	OPET Giresun Terminal	OPET Körfez Terminal	OPET Marmara Terminal	OPET Mersin Terminal
Top Loading	Number of Arms: 8 Accuload III	Number of Arms: 16 Accuload III	Number of Arms: 35 Accuload III	Number of Arms: 30 Accuload III
Bottom Loading	X	X	Number of Arms: 5 Accuload III	X
Injection	10 Unit Mono-Block II	Mono-Block II	Mono-Block II National Marker	Mono-Block II National Marker
Marine Loading	X	X	X	X
Pipeline Loading	X	X	X	X
Rail Car Loading	X	X	X	Number of Arms: 4 Accuload III
Other Applications	X	X	X	X
Database	Oracle 9/I	Oracle	Oracle	Oracle
Interfaces	SAP OMRON ® PLC Weigh Scale	SAP Weigh Scale	SAP Siemens ® PLC Weigh Scale	SAP OMRON ® PLC Weigh Scale
Application Date	September 2007	April 2007	February 2006	September 2004





TERMINAL	<b>PETROLEUM Mersin Terminal</b>	<b>POAŞ Batman</b>	<b>POAŞ Derince</b>	<b>POAŞ İskenderun Terminal</b>
Top Loading	Number of Arms: 6 Accuload II STD	Number of Arms: 8 Accuload III	Number of Arms: 18 Accuload III	Number of Arms: 16 Accuload III
Bottom Loading			Number of Arms: 6 Accuload III	Number of Arms: 4 Accuload III
Injection	X	8 Units MonoBlock III 2 Units MicroBlender	Contrec	8 Units Mono-Block II 12 Units Contrec 9 Units Microblender
Marine Loading	X	X	X	X
Pipeline Loading	X	X	X	X
Rail Car Loading	X	X	X	X
Other Applications	X	X	X	X
Database	Microsoft SQL Server 2000	ORACLE	ORACLE	ORACLE 9/I
Interfaces	Weigh Scale	ERP	ERP	ERP, Telemechanique ® PLC Weigh Scale/SAAB Tank Gauging Interface Queue Display
Application Date	March 2004	December 2008	November 2008	November 2004





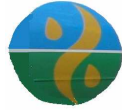
TERMINAL	POAŞ Kıbrıs Terminal	POAŞ Kırıkkale Terminal	POAŞ Mersin Terminal	POAŞ Samsun Terminal
Top Loading	Number of Arms: 6 Accuload III	Number of Arms: 12 Accuload III STD	Number of Arms: 17 Accuload III	Number of Arms: 16 Accuload III
Bottom Loading		Number of Arms:4 Accuload III	Number of Arms: 5 Accuload III	Number of Arms: 4 Accuload III STD
Injection	X	12 Units Contrec 6 Units Microblender	4 Units Monoblok II 21 Units Contrec 5 Units Microblender	Mono-Block II 9 Units Microblender
Marine Loading	X	X	X	X
Pipeline Loading	X	X	X	X
Rail Car Loading	X	X	X	X
Other Applications	X	X	X	X
Database	Jet Database	ORACLE 9/I	ORACLE 9/I	ORACLE 9/I
Interfaces	X	ERP	ERP FANUC ® PLC Weigh Scale/SAAB Tank Gauging Interface Queue Display	ERP Telemechanique ® PLC Weigh Scale ,SAAB Tank Gauging Interface Queue Display
Application Date	June 2002	December 2002	December 2005	September 2005





TERMINAL	POAŞ Trabzon Terminal	SHELL & TURCAS PETROL Aliğa Terminal	SHELL & TURCAS PETROL Kırıkkale Terminal	SHELL & TURCAS PETROL Körfez Terminal
Top Loading	Number of Arms: 16 Accuload III	Number of Arms: 16 Accuload III	Number of Arms: 8 Accuload III	Number of Arms: 21 Accuload II STD
Bottom Loading	Number of Arms:4 Accuload III	Number of Arms:4 Accuload III	Number of Arms:5 Accuload III	Number of Arms:8 Accuload II STD
Injection	16 Units Contrec 6 Units Microblender	X	16 Units Mono-Block II	20 Units Piston Injectors
Marine Loading	X	X	X	X
Pipeline Loading	X	X	X	X
Rail Car Loading	X	X	X	X
Other Applications	X	X	X	X
Database	ORACLE 9/I	Microsoft SQL Server 2003	Microsoft SQL Server 2000	ORACLE 9/I
Interfaces	ERP B&R ® PLC Weigh Scale, SAAB Tank Gauging Interface Queue Display		X	ERP
Application Date	November 2004	February 2008	June 2007	May 2005





TERMINAL	TARKİM TARIMSAL KİMYA	TOTAL Gebze Terminal	TOTAL Haramidere Terminal	TOTAL Samsun Terminal
Top Loading	Number of Arms: 2 Accuload III	Number of Arms: 14 Accuload III	Number of Arms: 12 Accuload III	Number of Arms: 14 Accuload III
Bottom Loading	X	X	Number of Arms: 4 Accuload III	X
Injection	2 Units Monoblock II 1 Unit Microblender	Ethanol Injection Biodiesel Injection	16 Units Monoblock II	Contrec
Marine Loading	X	X	X	X
Pipeline Loading	X	X	X	X
Rail Car Loading	X	X	X	X
Other Applications	X	X	X	X
Database	Microsoft SQL Server 2000	Microsoft SQL Server 2000	Microsoft SQL Server 2000	Microsoft SQL Server 2000
Interfaces	Weigh Scale	X	X	X
Application Date	September 2004	September 2008	March 2004	August 2008





**TERMINAL****Top Loading****Bottom Loading****Injection****Marine Loading****Pipeline Loading****Rail Car Loading****Other Applications****Database****Interfaces****Annlication Date**

<b>TPPD Hatay Dört Yol Terminal</b>	<b>TUTA Mersin Terminal</b>	<b>TÜPRAŞ Batman Refinery</b>	<b>TÜPRAŞ İzmir Refinery</b>	<b>TÜPRAŞ Kırıkkale Refinery</b>
Number of Arms: 20 Accuload III	Number of Arms: 6 Accuload II STD	Number of Arms: 23 Accuload III	Number of Arms: 19 Accuload III	Number of Arms: 58 Accuload II STD, Accuload III
<b>X</b>	<b>X</b>	<b>X</b>	Number of Arms: 8 Accuload III	Number of Arms: 7 Accuload III
<b>X</b>	<b>X</b>	<b>X</b>	National Marker : 3 MINI-PAK 3000	24 Units Microblender
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	Number of Meters: 17 Accuload II STD, Accuload II SEQ, Accuload III
<b>X</b>	<b>X</b>	Number of Arms: 4 Accuload II	<b>X</b>	<b>X</b>
<b>X</b>	<b>X</b>	Queue Display Weigh Scale /Gate Control Loading Gentry Weight-Bridge Control	Queue Display Weigh Scale /Gate Control Loading Gentry Weight-Bridge Control	7 LPG 8 PIPELINE
ORACLE 9/I	Microsoft SQL Server 2000	ORACLE 9/i	ORACLE 9/i	ORACLE 9/i
OMRON ® PLC Weigh Scale	Weigh Scale	SAP OMRON PLC Weigh Scale, Queue Display	SAP OMRON PLC	SAP
<b>January 2006</b>	<b>March 2004</b>	<b>April 2004</b>	<b>January 2007</b>	<b>March 2001</b>