

English version



**INJECTION
SYSTEMS**



In the past 1960 **Industrias Deu** was founded by Mr. Jaime Deu as family company in a very small building in Barcelona City. From those days to now **Industrias Deu** during its constant evolution have moved to different places in the industrial area of Barcelona.



Nowadays since the beginning of this century **Industrias Deu** is located in a new building with 3000 square meters to be use as storage, assembling area, show room, mould making workshop and offices.



Jordi and Albert Deu continuing with the industrial mentality of innovation, quality and after-service are increasing the presence of **DEU** moulding injection machinery in the European Market since 1998, when the first machine was launch to the market.



The Engineering department of **Industrias Deu** has been the base and origin of Deu moulding injection machines.

Accurate design of parts and assemblies, selection of the best materials and components between the more reputed brands of each speciality and the rigorous pursuit of CE requirements have allowed that **DEU** machines have, from the first beginning, an image of solidity and modernity under a European construction's style. Always using the best brands of hydraulics, electronics and electric components Deu machines achieve a high level control of the injection process with a very simple and comfortable handling.

The Engineering department of **Industrias Deu** is ready to solve any problem or look for any solution to make a fully automatically cell of production around the moulding injection machine.



Technical specifications

INJECTION UNIT

Features	Units	55				125				190			250		
Screw model		H	A "Std"	B	C	H	A "Std"	B	C	H	A "Std"	B	H	A "Std"	B
Screw diameter	mm	18	20	22	24	24	26	28	30	26	30	34	30	34	38
Injection pressure	bar	2.593	2.100	1.735	1.458	2.722	2.319	2.000	1.742	2.692	2.022	1.574	2.333	1.816	1.454
Theoretical shot volume, PS material	cm3	20	25	30	36	45	53	61	70	69	91	118	106	136	170
Shot weight, PS material	g	18	22	27	32,4	40	47	54	63	62	81	106	95	122	153
Injection rate	cm3/s	43	53	64	76	54	67	78	89	58	77	99	65	84	104
Plasticizing capacity, PS material	g/s	3,61	4,44	5,83	7,22	5,55	6,11	6,94	7,77	6,11	10,55	12,77	10,55	12,77	16,11
Screw lenght-diameter relation	L/D	20				20,4				20,7			20,3		
Screw speed	rpm	335				335				270			220		
Heating zones		1 + 3				1 + 3				1 + 3			1 + 3		
Heating power	kW	3,2				5,04				5,04			6,7		

INJECTION UNIT

Features	Units	2955			2955c			3320			4190			5270	
Screw model		H	A "Std"	B	A "Std"	B	C	A "Std"	B	C	A "Std"	B	C	A "Std"	B
Screw diameter	mm	65	70	75	70	75	80	75	80	85	80	85	90	85	90
Injection pressure	bar	2.226	1.920	1.672	1.920	1.672	1.470	1.747	1.535	1.360	1.915	1.696	1.513	1.936	1.726
Theoretical shot volume, PS material	cm3	1.327	1.539	1.767	1.539	1.767	2.010	1.899	2.161	2.440	2.186	2.468	2.767	2.723	3.053
Shot weight, PS material	g	1.194	1.385	1.590	1.385	1.590	1.809	1.709	1.944	2.196	1.967	2.221	2.490	2.450	2.747
Injection rate	cm3/s	272	315	362	315	362	412	441	502	567	392	443	494	518	581
Plasticizing capacity, PS material	g/s	47,22	52,77	61,11	52,77	61,11	69,44	61,11	69,44	77,77	66,66	76,38	86,11	77,77	86,11
Screw lenght-diameter relation	L/D	19,4			22			20,5			20			20,2	
Screw speed	rpm	175			175			145			145			135	
Heating zones		1 + 4			1 + 4			1 + 4			1 + 4			1 + 4	
Heating power	kW	20,1			24,74			26,54			27,4			30,1	

CLAMPING UNIT

Features	Units	250	500	900	1200	1600	2000	2400	2800	3200
Maximum clamping force	kN	250	500	900	1.200	1.600	2.000	2.400	2.800	3.200
Maximum daylight	mm	470	560	680	860	920	1.050	1.160	1.250	1.370
Maximum mould plate stroke	mm	220	260	330	410	420	480	530	570	620
Mould thickness (min/max)	mm	100 / 250	100 / 300	100 / 350	150 / 450	150 / 500	150 / 570	200 / 630	200 / 680	250 / 750
Space between tie bars (Horizontal)	mm	270	310	360	410	450	480	530	560	620
Mould plates size (Width x Height)	mm	410 x 410	460 x 460	560 x 560	640 x 640	690 x 690	740 x 740	800 x 800	830 x 830	930 x 930
Ejector style		1	5	5	5	5	9	9	9	13
Ejector force	kN	13,4	27,4	39,5	39,5	39,5	53,8	53,8	53,8	110
Ejector stroke	mm	60	60	80	130	130	160	160	160	200
Pump power	kW (HP)	7,5 (10)	11 (15)	11 (15)	15 (20)	18,5 (25)	22 (30)	30 (40)	30 (40)	37 (50)
Hidraulic tank capacity	lts	100	130	200	250	350	400	450	500	550
Machine weight aprox. without oil	kg	1.500	2.900	4.300	5.500	6.500	7.600	9.000	10.000	14.500
Machine size aprox (L x W x H)	mm	2.800 x 1.100 x 1.750	3.660 x 1.000 x 1.510	4.200 x 1.180 x 1.600	4.800 x 1.260 x 1.720	4.800 x 1.300 x 1.760	530 x 136 x 180	5.900 x 1.420 x 1.860	6.200 x 1.440 x 1.890	6.400 x 1.600 x 2.000

360			550			715			1010			1280			1780		
H	A "Std"	B	H	A "Std"	B	H	A "Std"	B	H	A "Std"	B	H	A "Std"	B	H	A "Std"	B
34	38	42	38	42	48	42	48	52	48	52	55	52	55	60	55	60	65
2.325	1.861	1.523	2.421	1.806	1.517	2.332	1.786	1.522	2.138	1.822	1.629	2.143	1.915	1.610	2.341	1.967	1.676
154	192	235	226	277	362	304	398	467	470	552	617	594	665	792	760	904	1.061
138	172	211	203	249	325	273	358	420	423	496	555	534	598	712	684	813	954
90	113	138	106	129	169	130	170	200	190	223	250	191	214	254	230	260	305
13,88	16,84	22,22	19,44	21,66	27,77	23,33	27,77	33,33	30,55	36,11	41,66	36,11	41,66	47,22	37,5	44,44	50
20			20,7			19,6			19,6			19,6			20,7		
300			275			220			220			175			175		
1 + 3			1 + 3			1 + 3			1 + 3			1 + 3			1 + 4		
7,2			7,96			8,8			11,2			12,4			16,8		

	5820		7730		8395		11425		14765		18325		23930		29010	
C	A "Std"	B	A "Std"	B	A "Std"	B	A "Std"	B	A "Std"	B	A "Std"	B	A "Std"	B	A "Std"	B
95	90	100	95	105	100	110	110	120	120	130	130	140	140	150	150	160
1.549	1.726	1.398	1.947	1.594	1.843	1.523	1.792	1.506	1.813	1.545	1.770	1.526	1.851	1.612	1.824	1.603
3.402	3.371	4.162	3.969	4.849	4.555	5.512	6.272	7.464	8.143	9.556	10.353	12.006	12.930	14.843	15.903	18.095
3.061	3.034	3.746	3.572	4.364	4.100	4.961	5.645	6.718	7.329	8.600	9.318	10.805	11.637	13.358	14.312	16.285
647	674	832	708	865	808	978	1.007	1.198	1.106	1.298	1.265	1.467	1.385	1.590	1.533	1.745
97,22	100	125	125	152,77	130,55	155,55	147,22	175	211,11	247,22	233,33	269,44	272,22	316,66	316,66	361,11
	21,1		20		19		20,5		20		20		20		20	
	156		168		164		170		160		160		150		140	
	1 + 5		1 + 5		1 + 5		1 + 5		1 + 5		1 + 6		1 + 6		1 + 6	
	34,4		34,4		38,23		44,93		48		60		80		110	

3500	4000	4500	5000	6500	8500	10500	13000	15000	18000	22000	26000
3.500	4.000	4.500	5.000	6.500	8.500	10.500	13.000	15.000	18.000	22.000	26.000
1.450	1.520	1.620	1.760	1.920	2.130	2.230	2.550	2.900	3.300	3.500	3.500
650	720	770	810	920	1.030	1.030	1.250	1.500	1.700	1.800	1.800
300 / 800	300 / 800	300 / 850	300 / 950	350 / 1.000	400 / 1.100	500 / 1.200	500 / 1.300	500 / 1.400	600 / 1.600	700 / 1.700	700 / 1.700
660	710	760	810	910	1.010	1.110	1.210	1.410	1.610	1.810	1.810
960 x 960	1.060 x 1.060	1.130 x 1.130	1.210 x 1.210	1.370 x 1.370	1.530 x 1.530	1.640 x 1.540	1.760 x 1.700	2.020 x 1.920	2.270 x 2.160	2.600 x 2.500	2.650 x 2.550
13	13	17	17	21	21	21	29	29	29	37	37
110	110	172	172	280	280	280	356	356	356	440	440
240	240	240	240	300	300	300	300	300	300	350	350
45 (60)	45 (60)	55 (75)	55 (75)	75 (100)	85 (115)	100 (135)	112 (150)	134 (180)	150 (200)	168 (225)	186 (250)
650	650	700	800	1.000	1.100	1.200	1.400	1.600	2.000	2.500	2.500
16.000	18.500	21.000	23.000	33.700	41.000	48.000	60.000	75.000	96.000	140.000	155.000
7.500 x 1.700 x 2.000	8.000 x 1.770 x 2.000	8.300 x 1.840 x 2.100	8.500 x 1.920 x 2.200	9.600 x 2.180 x 2.350	10.400 x 2.200 x 2.460	10.700 x 2.350 x 2.600	11.200 x 2.620 x 2.800	12.600 x 2.870 x 2.940	14.000 x 3.000 x 3.200	19.000 x 3.500 x 3.500	20.500 x 3.500 x 3.500

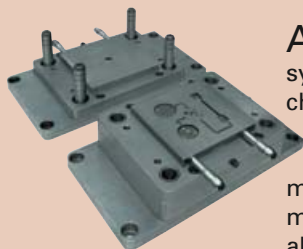


DEU 250H55
Mini VP

This small but great machine is able to use moulds up to 270 mm of height with an opening stroke of 470 mm.

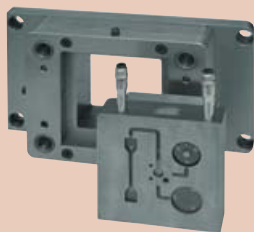
This machine can produce parts up to 32 grams in PS (DEU 250H55) with very short cycle time and low energy consumption.

Dry cycle time, according Euromap 6, 1,50 seconds for 170 mm.



A very ingenious and useful system of mould-carrier allows changing only the mould cavities to produce a new item or it can be taken out to put a standard mould. This design reduces the mould cost to the minimum, and also the set-up time of mould and machine.

In a really reduce total layout dimension the machine has an inside space big enough to allow an easy handle of any part of the machine or mould.



A very new control panel, DEU 4000, developed over the DEU 6000, have the same features and functions as bigger machines. The new control panel has the same functions of the DEU 6000 control panel but with a different screen and keyboard more according to the special design of the DEU Mini 250H55.



The new DEU 250 H55 is essential to any manufacturer of small plastic parts in conventional or technical plastic to be able to produce at the lowest cost.

After a lot of calculations over real productions, the studies are showing that DEU 250 H55 can reach a important cost reduction in the production of small plastic parts (beside a standard moulding injection machine with a standard mould.). This lower cost is obtained thanks to the low investment in machine and mould, the reduction of waste material used in runners or cleaning the barrel, the low energy consumption and the stability of the injection process.

The special specifications of DEU 250H55 make it also very useful in:

- Universities and laboratories (plastic research).
- Professional schools (for mould makers or moulding injection machine users).
- Prototyping (low cost and short time of mould manufacture).
- Pre-series (first production to check product or market).
- New companies (low investment of machine and mould).



DEU 2800H1780
Modular VP

Modular

Molding injection machines from **900 to 2800 kN** clamping force.

DEU 6500H5820
Medium VP

Medium

Molding injection machines from **3200 to 6500 kN** clamping force.

DEU 25000H29010
Expert VP

Expert

Molding injection machines from **8000 to 25000 kN** clamping force.



INJECTION SYSTEMS



Some standard equipment common to all the series:

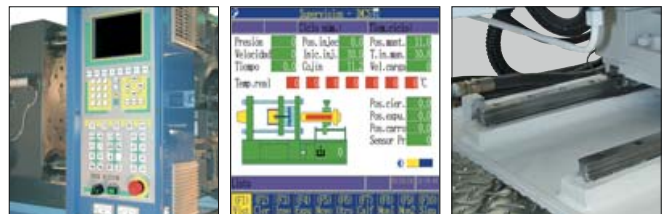
- Double toggle system.
- Grease-less bushings in the entire machine.
- Automatic alarm in case of lubrication system failure.
- External filter for hydraulic oil.



- Turning of the injection unit for the easy changing of screw and barrel.
- High torque hydraulic motor driving directly the screw.
- Slide plate oil-less system below the moving platen.
- Tempered linear guides in the injection unit.



- Redundant safety systems according CE mark.
- Modular control system mounted in a electronic rack.
- Control panel based in a industrial PC.
- Colour screen showing six stages of injection controlled by pressure speed position and time.



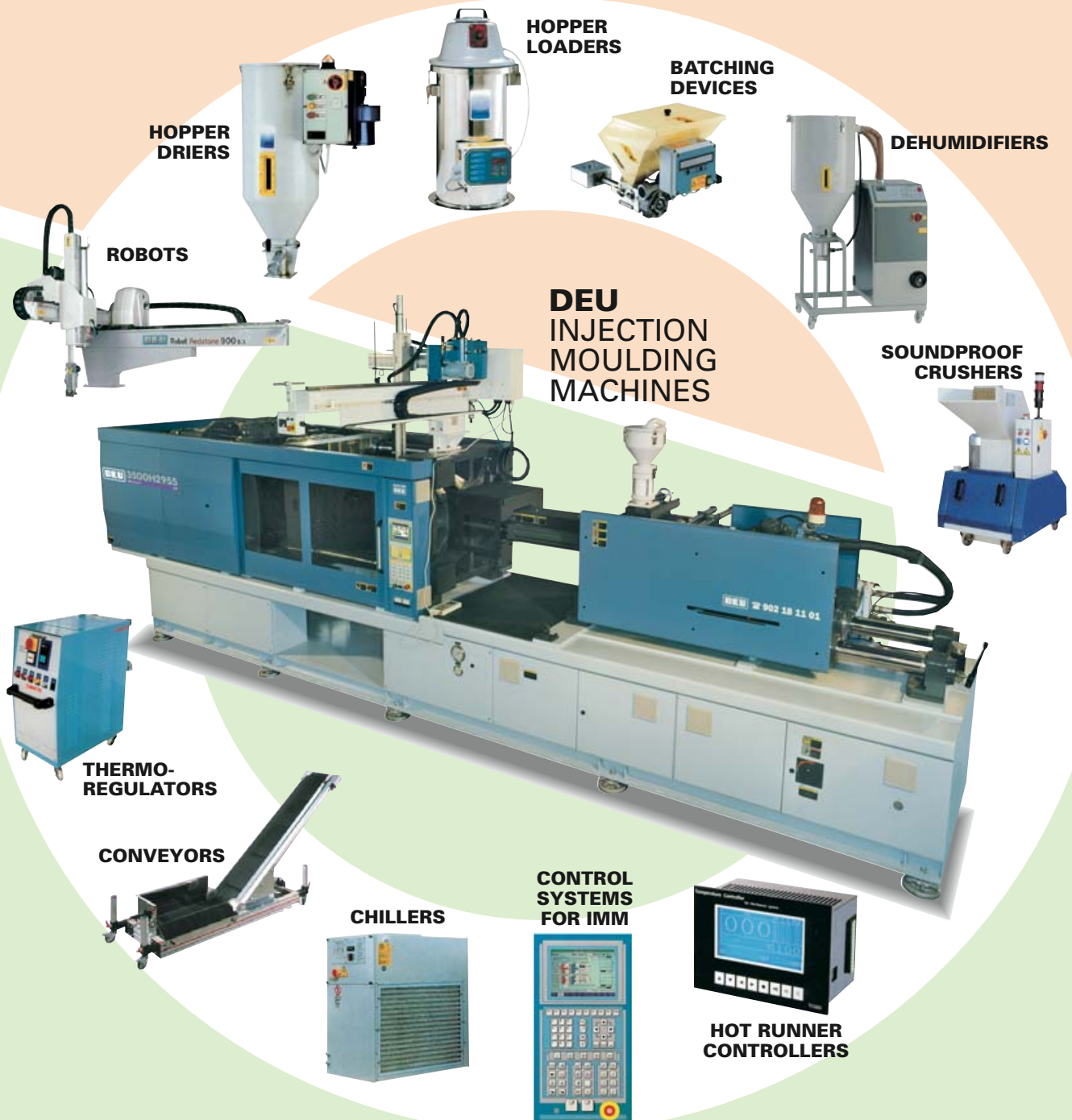
- Intelligent hydraulic circuit, with variable pump and low energy consumption.
- Hydraulic system with European standard components.
- Simple access to any part of the hydraulic circuit.
- Up to 5.000 kN of clamping force in a single piece.



All the answers to get a high quality,
low cost and safe injection.

Integrated Injection Module

Advising + Training + After-service + Profitability



INJECTION SYSTEMS

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