

IMPROVEMENT PASSION SPIRIT
COURAGE GROUP SUCCESS
PEOPLE CUSTOMER

**FORGING
VALUES
IN TOOL
STEELS**



LOOK BEYOND



OUR VISION

The global and reliable Partner
for the sustainable progress of mobility and industry.
Passion, talent and creativity
for advanced Customer-orientated solutions.

IMPROVEMENT
COURAGE
PEOPLE
PASSION
GROUP
SPIRIT
CUSTOMER
SUCCESS

ABOUT US

Since 1856, Lucchini RS Group has been a leader in the design and production of rolling stock, castings and forgings for all industrial sectors.

The strengths of the Group are: the integrated production facilities, from the production of steel to finished products and services, the competence and know-how of people, and an organisation, wholly focused on customers and markets.

Lucchini RS Group manufactures a wide range of **Forged Tool Steels** with Premium steel grades for Plastic moulds, Hot work & High-End Plastic, Corrosion resistance & precipitation hardening.

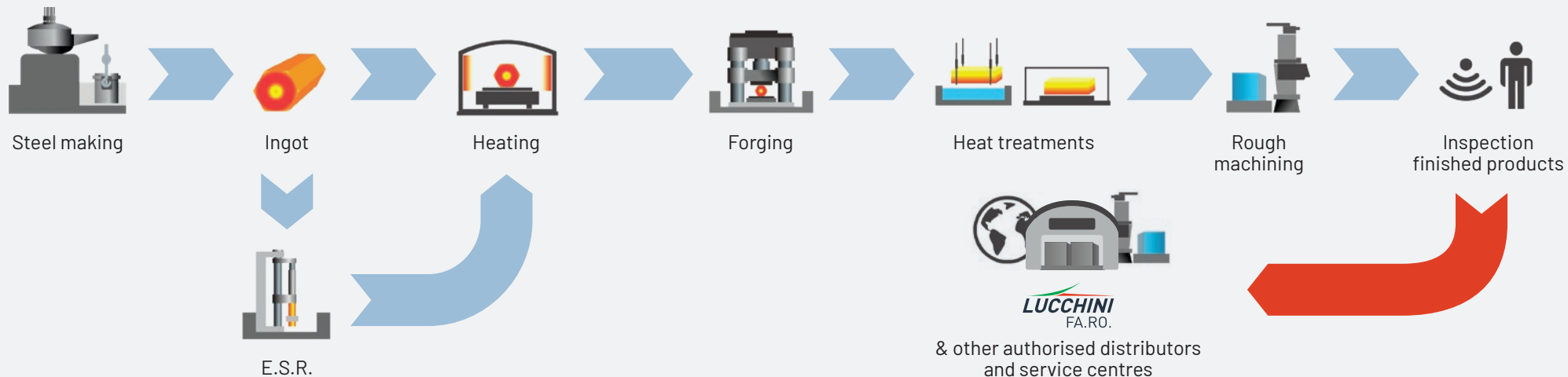
Our Group meets the international demand through a network of international distributors and service centers.

GROUP
LUCCHINI RS

LOOK BEYOND

IRONCLAD SUPPLY RESILIENCE

GROUP
LUCCHINI RS



LOOK BEYOND



FORGED IN NATURE

Our manufacturing method starts with the use of scrap, including recovered products at the end of their life cycle, giving them a second life.

+44%

self-produced
electricity from
renewable sources

83%

of raw materials
come from
recycled materials

-75%

CO₂ emissions using
Electric Arc Furnace
instead of blast
furnace

By adopting a closed-loop recycling strategy, we are able to significantly contribute to the reduction of the carbon footprint of our production process.

GROUP
LUCCHINIRS



DISCOVER OUR
SUSTAINABILITY
REPORT

LOOK BEYOND



BEING SERVICE-MINDING



SHORTER LEAD TIME
thanks to wide range of available stock



CUSTOMIZED BLOCKS
cut-to-size



PRE-MACHINING
for mould makers

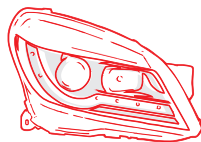


HIGH-QUALITY HEAT TREATMENTS
for die-casting dies

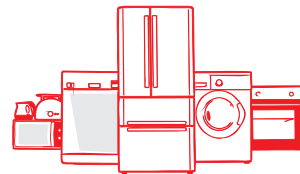
WHERE WE MAKE A DIFFERENCE

GROUP
LUCCHINI RS

Automotive



Home appliances & white goods



Electronics



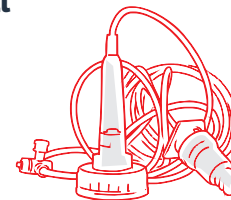
Lenses



Packaging



Medical



LOOK BEYOND

LUCCHINI RS
ESKYLOS 2344 EVO
H. 18R043
M. 61800717
1055 X 605 X 2075 MM



FIND THE PERFECT STEEL GRADES WITH OUR ADVANCED PRODUCT FINDER



Simply select the characteristics you require, and our system will instantly identify the most suitable steel grades for your project, helping you make informed decisions quickly and efficiently.

01

CHOOSE

the product finder
according to
the application



02

SELECT

the properties



03

DISCOVER

the best tool steel
for your needs



FIND THE BEST
TOOL STEELS
FOR **INJECTION**
MOULDS



DISCOVER THE
BEST TOOL STEELS
FOR **DIE CASTING**
& **HOT WORKING**

LOOK BEYOND



KEYLOS®
| *VALUE IN PERFORMANCE*

FORGING VALUES IN PERFORMANCE

Modified Premium Steel Grades
& Materials for Plastic Moulds.

IMPROVEMENT PASSION
COURAGE GROUP SPIRIT
PEOPLE CUSTOMER SUCCESS

GROUP
LUCCHINIRS

LOOK BEYOND

MODIFIED PREMIUM STEEL GRADES



	C	Si	Mn	Cr	Mo	Ni	V	S		Supply Condition	Hardness	Application
KEYLOS®_{UP} W. Nr. 1.2738 mod. ≈ DIN 40CrMnNiMo8-3-3	0,38 ÷ 0,48	0,20 ÷ 0,50	1,40 ÷ 1,70	1,90 ÷ 2,30	0,15 ÷ 0,30	0,30 ÷ 0,60				QT	280-330 HB	Big sized cores and medium sized cavities plastic moulding. Big frames for die casting tools.
KEYLOS®₃₀ W. Nr. 1.2738 mod. AISI P20 mod.	0,27 ÷ 0,37	≤ 0,65	≤ 1,50	≤ 2,00	≤ 0,65	≤ 1,00	≤ 0,15			QT	290-330 HB	Lucchini RS premium steels enhancing the performance of the standard grades for plastic moulds. Very good through-thickness hardenability combined with very good toughness; very good machinability; improved thermal conductivity and weldability. Excellent polishability and etching-engraving attitude. Available up to thickness 1000 mm.
KEYLOS®₃₅ W. Nr. 1.2738 mod. HH AISI P20 mod. HH	0,27 ÷ 0,37	≤ 0,65	≤ 1,50	≤ 2,00	≤ 0,65	≤ 1,00	≤ 0,15			QT	320-360 HB	Lucchini RS premium steels enhancing the performance of the standard grades for plastic moulds. Very good through-thickness hardenability combined with very good toughness; very good machinability; improved thermal conductivity and weldability. Excellent polishability and etching-engraving attitude. Available up to thickness 1000 mm.

| **VALUE IN PERFORMANCE**

N normalized | QT quenched and tempered | A annealed

L O O K B E Y O N D

MODIFIED PREMIUM STEEL GRADES



	C	Si	Mn	Cr	Mo	Ni	V	S		Supply Condition	Hardness	Application
KEYLOS®₃₅ EVO W. Nr. 1.2738 mod. HH AISI P20 mod. HH ≈ DIN 26MnCrNiMo7	0,22 ÷ 0,32	0,15 ÷ 0,55	1,20 ÷ 1,60	1,20 ÷ 1,60	0,45 ÷ 0,70	0,80 ÷ 1,50	0,10 ÷ 0,20			QT	320-360 HB	Top quality grade designed for big sized cavities requiring high core hardness. Recommended in particular for moulds for bumpers and dashboards. Available up to thickness 1300 mm.
KEYLOS®₄₀	0,27 ÷ 0,37	≤ 0,65	≤ 1,50	≤ 2,00	≤ 0,65	≤ 1,00	≤ 0,15			QT	360-400 HB	Lucchini RS premium steel guaranteeing excellent combination between wear resistance and toughness. Very good weldability. Recommended in particular for technical moulds requiring high level of polishing and etching-engraving attitude, such as moulds for white goods, household items, interior and exterior cars' trims. Available up to thickness 500 mm.
KEYLOS®₄₀ EVO ≈ DIN 28MnCrNiMo6-5-4	0,20 ÷ 0,30	0,20 ÷ 0,50	1,40 ÷ 1,70	1,20 ÷ 1,60	0,55 ÷ 0,75	1,00 ÷ 1,30				QT	360-400 HB	Top quality grade designed for the most demanding medium-big sized plastic moulds requiring at the same time high wear resistance and toughness. Excellent weldability, polishability and etching-engraving attitude. Suitable as alternative to W. nr. 1.2711. Available up to thickness 800 mm.

| VALUE IN PERFORMANCE

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MATERIALS

according to Werkstoff and/or AISI classification



	C	Si	Mn	Cr	Mo	Ni	V	S		Supply Condition	Hardness	Application
LUCCHINI 1730 W.Nr. 1.1730 DIN EN ISO4957 C45W	0,42 ÷ 0,50	0,15 ÷ 0,40	0,60 ÷ 0,80							N	≤ 200 HB	Mould frames, prototypes for plastic injection moulding. Rubber moulds.
LUCCHINI 7225 W.Nr. 1.7225 DIN EN ISO4957 42CrMo4	0,38 ÷ 0,45	0,10 ÷ 0,40	0,60 ÷ 0,90	0,90 ÷ 1,20	0,15 ÷ 0,30					QT	220-270 HB	Mould frames, small sized tools (mainly cores) for plastic moulding. Rubber moulds.
LUCCHINI 2311 W.Nr. 1.2311 DIN EN ISO4957 40CrMnMo7	0,35 ÷ 0,45	0,20 ÷ 0,40	1,30 ÷ 1,60	1,80 ÷ 2,10	0,15 ÷ 0,30					QT	280-330 HB	Mould frames, cores, cavities for small-medium sized plastic injection and compression moulds. Plastic extrusion tools. Rubber moulds.

| VALUE IN PERFORMANCE

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MATERIALS

according to Werkstoff and/or AISI classification



	C	Si	Mn	Cr	Mo	Ni	V	S		Supply Condition	Hardness	Application
LUCCHINI 2312 W.Nr. 1.2312 DIN EN ISO4957 40CrMnMoS8-6	0,35 ÷ 0,45	0,20 ÷ 0,40	1,30 ÷ 1,60	1,80 ÷ 2,10	0,15 ÷ 0,30			0,05 ÷ 0,10		QT	280-330 HB	Cores for small-medium sized plastic injection and compression moulds. Plastic thermoforming and rubber moulds. Frames for die casting tools.
LUCCHINI 2738 W.Nr. 1.2738 DIN EN ISO4957 40CrMnNiMo8-6-4	0,35 ÷ 0,45	0,20 ÷ 0,40	1,40 ÷ 1,70	1,80 ÷ 2,20	0,15 ÷ 0,30	0,90 ÷ 1,30				QT	290-340 HB	Pioneer grade for plastic moulds with good through-thickness hardenability, machinability and finishing properties. Suitable for medium-big sized cores and cavities, big sized frames for die casting. Available up to thickness 1000 mm.
LUCCHINI P20 W. Nr. 1.2738 mod. AISI P20	0,30 ÷ 0,40	0,30 ÷ 0,80	0,60 ÷ 1,00	1,40 ÷ 2,00	0,30 ÷ 0,55					QT	290-330 HB	Manufacture of plastic moulds in a wide range of application, from small size to medium-big size.

| **VALUE IN PERFORMANCE**

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MATERIALS

according to Werkstoff and/or AISI classification



	C	Si	Mn	Cr	Mo	Ni	V	S		Supply Condition	Hardness	Application
LUCCHINI P20HH W. Nr. 1.2738 mod. HH AISI P20	0,30 ÷ 0,40	0,30 ÷ 0,80	0,60 ÷ 1,00	1,40 ÷ 2,00	0,30 ÷ 0,55					QT	320-360 HB	Manufacture of plastic moulds in a wide range of application, from small size to medium-big size.



FORGING VALUES IN ISOTROPY

Modified Premium Steel Grades &
Materials for Hot work & High-End Plastic

IMPROVEMENT
COURAGE
PEOPLE
PASSION
GROUP
SPIRIT
SUCCESS
CUSTOMER

GROUP
LUCCHINI RS

LOOK BEYOND

MODIFIED PREMIUM STEEL GRADES



	C	Si	Mn	Cr	Mo	Ni	V	S	P		Supply Condition	Hardness	Application
ESKYLOS®₄₀ EVO ≈ DIN 28MnCrNiMo6-5-4	0,20 ÷ 0,30	0,20 ÷ 0,50	1,40 ÷ 1,70	1,20 ÷ 1,60	0,55 ÷ 0,75	1,00 ÷ 1,30					QT	360-400 HB	ESR version of KEYLOS®40 EVO. Improved isotropy to achieve better polishability. Suitable for plastic moulds requiring higher strength and mirror polishing, such as cars' lights tools for low-medium run, moulds for white and transparent goods and electronics goods. Available up to thickness 500 mm; bigger thickness up to 800 mm on demand.
ESKYLOS®_{HICRO}	0,30 ÷ 0,40	0,10 ÷ 0,30	0,30 ÷ 0,50	6,80 ÷ 7,50	0,50 ÷ 1,00		0,40 ÷ 0,70	≤ 0,003	≤ 0,015		A	≤ 250 HB	Top quality ESR grade designed for moulds for transparent polymer and recycled polymer. Suitable for high polishing requirements. Better rust-corrosion resistance than standard steel grades for high end plastic moulds.
ESKYLOS®₂₃₄₃ EVO W.Nr. 1.2343 DIN EN ISO4957 X38CrMoV5-1 AISI H11 NADCA GRADE D	0,35 ÷ 0,40	0,80 ÷ 1,10	0,30 ÷ 0,50	5,00 ÷ 5,50	1,20 ÷ 1,50		0,30 ÷ 0,50	≤ 0,003	≤ 0,015		A	≤ 220 HB	Top quality ESR grade manufactured according to NADCA#207 and designed for the most demanding high pressure light alloys (Al-Mg) die casting dies. Excellent toughness. Suitable also for high-end plastic moulds requiring mirror polishing.

/ VALUE IN ISOTROPY

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MODIFIED PREMIUM STEEL GRADES



	C	Si	Mn	Cr	Mo	W	V	S	P		Supply Condition	Hardness	Application
ESKYLOS® 2344 EVO W.Nr. 1.2344 DIN EN ISO4957 X40CrMoV5-1 AISI H13 NADCA GRADE B	0,37 ÷ 0,42	0,80 ÷ 1,10	0,30 ÷ 0,50	5,00 ÷ 5,50	1,20 ÷ 1,50		0,80 ÷ 1,00	≤ 0,003	≤ 0,015		A	≤ 220 HB	Top quality ESR grade manufactured according to NADCA#207 and designed for the most demanding high pressure light alloys (Al-Mg) die casting dies. Excellent high-temperature wear resistance. Suitable also for high-end plastic moulds requiring mirror polishing.
ESKYLOS® OPTIMO NADCA GRADE E	0,32 ÷ 0,40	0,10 ÷ 0,30	0,30 ÷ 0,50	4,80 ÷ 5,50	1,50 ÷ 2,00	+	0,40 ÷ 0,70	≤ 0,003	≤ 0,015		A	≤ 220 HB	Top quality ESR grade for the most demanding high pressure light alloys (Al-Mg) die casting dies. Compared to W. Nr. 1.2343 ESR at high temperature it combines better rigidity and strength with the best toughness. Recommended for long run dies for component requiring smooth surface to be coated or painted.
ESKYLOS® HIMO NADCA GRADE C	0,32 ÷ 0,40	0,10 ÷ 0,30	0,30 ÷ 0,50	4,80 ÷ 5,50	2,00 ÷ 2,40	+	0,40 ÷ 0,70	≤ 0,003	≤ 0,015		A	≤ 220 HB	Top quality ESR grade as best choice for high pressure light alloys (Al-Mg) die casting dies. Excellent high temperature properties combined with very good toughness. Recommended in particular for long run dies for thick-walled pieces, also with complicated shapes.

/ VALUE IN ISOTROPY

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MATERIALS

according to Werkstoff and/or AISI classification



	C	Si	Mn	Cr	Mo	Ni	V	S	P		Supply Condition	Hardness	Application
LUCCHINI 2329 W.Nr. 1.2329 DIN EN ISO4957 46CrSiMoV7	0,44 ÷ 0,54	0,60 ÷ 0,90	0,70 ÷ 1,00	1,70 ÷ 2,10	0,25 ÷ 0,45	0,50 ÷ 0,80	0,15 ÷ 0,25				A	≤ 220 HB	Bolsters for aluminium extrusion dies.
LUCCHINI 2714 W.Nr. 1.2714 DIN EN ISO4957 56NiCrMoV7	0,50 ÷ 0,60	0,10 ÷ 0,40	0,65 ÷ 0,95	1,00 ÷ 1,20	0,45 ÷ 0,60	1,50 ÷ 1,80	0,07 ÷ 0,12				A QT	≤ 250 HB 370-410 HB	Standard steel grade for drop forging dies and holder-bolster for Aluminium extrusion dies. Suitable also for long run medium sized moulds for abrasive plastic requiring high finishing properties. Available up to thickness 500 mm; bigger thickness up to 800 mm on demand.
LUCCHINI 2711 W.Nr. 1.2711	0,50 ÷ 0,60	0,15 ÷ 0,35	0,60 ÷ 0,90	0,85 ÷ 1,15	0,30 ÷ 0,55	1,50 ÷ 1,80	0,07 ÷ 0,12				A QT	≤ 250 HB 370-410 HB	Steel grade with very good combination among high hardness, high wear resistance and toughness. Suitable for long run medium sized moulds for abrasive plastic requiring high finishing properties. Available up to thickness 500 mm.

VALUE IN ISOTROPY

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MATERIALS

according to Werkstoff and/or AISI classification



	C	Si	Mn	Cr	Mo	Ni	V	S	P		Supply Condition	Hardness	Application
LUCCHINI 2343 W.Nr. 1.2343 DIN EN ISO4957 X38CrMoV5-1 AISI H11	0,35 ÷ 0,40	0,80 ÷ 1,10	0,30 ÷ 0,50	4,80 ÷ 5,50	1,10 ÷ 1,50		0,30 ÷ 0,50				A	≤ 220 HB	Pioneer hot work tool steel with high thermal fatigue and high-temperature wear resistance. Better toughness than W. nr. 1.2344. Suitable for hot stamping, low pressure and gravity Aluminium die casting dies, Aluminium extrusion dies and high-end plastic moulds.
LUCCHINI 2340 W. Nr. 1.2340	0,32 ÷ 0,40	0,10 ÷ 0,30	0,30 ÷ 0,50	4,80 ÷ 5,50	1,20 ÷ 1,50		0,30 ÷ 0,50				A	≤ 220 HB	Moulds for low pressure die casting, gravity casting and aluminum extrusion.
LUCCHINI 2340 ESR W.Nr. 1.2340 NADCA GRADE E	0,32 ÷ 0,40	0,10 ÷ 0,30	0,30 ÷ 0,50	4,80 ÷ 5,50	1,20 ÷ 1,50		0,30 ÷ 0,50				A	≤ 220 HB	ESR version. High performing aluminium extrusion big sized dies. Drop forging dies and inserts. Particularly suited for drop forging of Ni based alloys.

VALUE IN ISOTROPY

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MATERIALS

according to Werkstoff and/or AISI classification



	C	Si	Mn	Cr	Mo	Ni	V	S	P		Supply Condition	Hardness	Application
LUCCHINI 2344 W.Nr. 1.2344 DIN EN ISO4957 X40CrMoV5-1 AISI H13 NADCA GRADE A	0,35 ÷ 0,40	0,80 ÷ 1,10	0,30 ÷ 0,50	4,80 ÷ 5,50	1,20 ÷ 1,50		0,80 ÷ 1,00				A	≤ 220 HB	Pioneer hot work tool steel with high thermal fatigue resistance. Better high-temperature wear resistance than W. nr. 1.2343. Suitable for hot stamping, low pressure and gravity Aluminium die casting dies, Aluminium extrusion dies and high-end plastic moulds.
LUCCHINI 2367 W. Nr. 1.2367 DIN EN ISO 4957 X38CrMoV5-3	0,35 ÷ 0,40	0,30 ÷ 0,50	0,30 ÷ 0,50	4,80 ÷ 5,20	2,70 ÷ 3,20		0,40 ÷ 0,60				A	≤ 220 HB	Moulds for die casting, gravity casting and aluminium extrusion.
LUCCHINI 2367 ESR W.Nr. 1.2367 DIN EN ISO4957 X38CrMoV5-3 NADCA GRADE C	0,35 ÷ 0,40	0,30 ÷ 0,50	0,30 ÷ 0,50	4,80 ÷ 5,20	2,70 ÷ 3,20		0,40 ÷ 0,60				A	≤ 220 HB	ESR version. Dies for low pressure aluminium gravity casting and high pressure Al-Mg die casting. Recommended for small and medium sized dies (<500Kg) for long run productions.

VALUE IN ISOTROPY

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MATERIALS

according to Werkstoff and/or AISI classification



	C	Si	Mn	Cr	Mo	Ni	V	S	P		Supply Condition	Hardness	Application
LUCCHINI 2767 W. Nr. 1.2767 DIN EN ISO 4957 45NiCrMo16	0,40 ÷ 0,50	0,15 ÷ 0,55	0,40 ÷ 0,90	1,20 ÷ 1,70	0,30 ÷ 0,60	3,50 ÷ 4,50	0,05 ÷ 0,25				A	≤ 270 HB	Tools exposed to repeated impacts and high stresses in service.
LUCCHINI 6959 W.Nr. 1.6959 DIN EN ISO4957 35NiCrMoV12-5	0,30 ÷ 0,40	0,15 ÷ 0,55	0,40 ÷ 0,90	0,80 ÷ 1,70	0,35 ÷ 0,90	3,00 ÷ 4,00	0,05 ÷ 0,25				QT	360-420 HB	Special steel grade designed for extremely stressed moulds requiring fast heat exchange and excellent toughness. Suitable for medium sized high pressure injection moulds, SMC/BMMC moulds and moulds for rubber pressing. Recommended in particular for white goods. Available up to thickness 500 mm.
LUCCHINI 6959 ESR W.Nr. 1.6959 DIN EN ISO4957 35NiCrMoV12-5	0,30 ÷ 0,40	0,15 ÷ 0,55	0,40 ÷ 0,90	0,80 ÷ 1,70	0,35 ÷ 0,90	3,00 ÷ 4,00	0,05 ÷ 0,25				QT	360-420 HB	ESR version of LUCCHINI 6959. Improved isotropy to achieve better polishability. Recommended when mirror finishing is required. Available up to thickness 500 mm.

VALUE IN ISOTROPY

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MATERIALS

according to Werkstoff and/or AISI classification



	C	Si	Mn	Cr	Mo	Ni	V	S	P		Supply Condition	Hardness	Application
LUCCHINI H11 ESR W. Nr. 1.2343 ISO 4957-02 X37CrMoV5.1 AISI H11 NADCA Grade D	0,35 ÷ 0,42	0,80 ÷ 1,20	0,20 ÷ 0,60	5,00 ÷ 5,50	1,10 ÷ 1,60		0,30 ÷ 0,50	≤ 0,003	≤ 0,015		A	≤ 220 HB	ESR version. Dies for high-pressure die casting of light alloys (Aluminum and Magnesium). Suitable for manufacturing optical lenses and cars' lights tools with long run campaigns.

FORGING VALUES IN TOOL STEELS

Materials for Corrosion resistance
& Precipitation hardening

IMPROVEMENT PASSION
COURAGE GROUP SPIRIT
PEOPLE CUSTOMER SUCCESS

GROUP
LUCCHINIRS

LOOK BEYOND

MODIFIED PREMIUM
STEEL GRADES



	C	Si	Mn	Cr	Mo	Ni	V	S	P		Supply Condition	Hardness	Application
<i>ESKYLOS[®] OPTILENS</i>	0,36 ÷ 0,40	0,90 ÷ 1,20	0,30 ÷ 0,60	13,00 ÷ 14,00		added	0,25 ÷ 0,35				A	≤ 250 HB	Top quality ESR martensitic stainless steel for plastic injection moulds requiring high corrosion resistance. Suitable for long run moulds for PVC, PA,POM, recycled polymers and polymers with flame retarding additives. Designed in particular for small sized moulds for optical parts (lens).

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MATERIALS

according to Werkstoff and/or AISI classification



	C	Si	Mn	Cr	Mo	Ni	V	S		Supply Condition	Hardness	Application
LUCCHINI 2083 W.Nr. 1.2083 DIN EN ISO4957 X42Cr13 AISI 420	0,33 ÷ 0,43	<1,00	0,30 ÷ 0,60	12,50 ÷ 13,50						A QT	≤ 250 HB 280-330 HB	Martensitic stainless steel for plastic injection moulds requiring high corrosion resistance. Suitable for long run moulds for PVC, PA, POM, recycled polymers and polymers with flame-retardant additives. Suitable for small sized moulds for food and packaging, medicals and cosmetic items.
LUCCHINI 2083 ESR W.Nr. 1.2083 DIN EN ISO4957 X42Cr13 AISI 420	0,33 ÷ 0,43	<1,00	0,30 ÷ 0,60	12,50 ÷ 13,50						A QT	≤ 250 HB 280-330 HB	ESR version of LUCCHINI 2083. Improved isotropy to achieve better polishability. Suitable for small sized moulds for optical parts (lens).
LUCCHINI 2085 W.Nr. 1.2085 DIN EN ISO4957 X35CrS16	0,30 ÷ 0,40	<1,00	0,30 ÷ 0,60	15,00 ÷ 16,50				0,05 ÷ 0,10		A QT	≤ 250 HB 280-330 HB	Martensitic stainless steel for plastic injection moulds with high corrosion resistance without polishing requirement. Used in particular for mould base and cases of hot runner system.

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MATERIALS

according to Werkstoff and/or AISI classification



	C	Si	Mn	Cr	Mo	Ni	Cu	Nb		Supply Condition	Hardness	Application
LUCCHINI 2316 W.Nr. 1.2316 ≈ DIN EN ISO4957 X38CrMo16	0,33 ÷ 0,43	<1,00	<1,50	15,50 ÷ 17,50	0,80 ÷ 1,30	<1,00				A QT	≤ 250 HB 280-330 HB	Martensitic stainless steel for plastic injection moulds requiring high corrosion resistance. Suitable for long run moulds for PVC, PA, POM, recycled polymers and polymers with flame-retardant additives. Suitable for small sized moulds for food and packaging, medicals and cosmetic items.
LUCCHINI 2316 ESR W.Nr. 1.2316 ≈ DIN EN ISO4957 X38CrMo16	0,33 ÷ 0,43	<1,00	<1,50	15,50 ÷ 17,50	0,80 ÷ 1,30	<1,00				A QT	≤ 250 HB 280-330 HB	ESR version of LUCCHINI 2316. Improved isotropy to achieve better polishability. Suitable for small sized moulds for optical parts (lens).
LUCCHINI 4542 W.Nr. 1.4542 / 17-4 PH DIN EN ISO4957 X5CrNiCuNb17-4 AISI 630	<0,08	<1,00	<1,00	14,00 ÷ 17,00		3,00 ÷ 5,00	2,50 ÷ 5,00	0,15 ÷ 0,45		Solution treated Age hardened	≤ 360 HB 300-350 HB	Precipitation hardening martensitic stainless steel with very high corrosion resistance and good toughness. Suitable for medium-big sized plastic injection mould with complicated shape.

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND

MATERIALS

according to Werkstoff and/or AISI classification



	C	Si	Mn	Cr	Mo	Ni	Cu	Nb		Supply Condition	Hardness	Application
LUCCHINI 4542 ESR W.Nr. 1.4542 / 17-4 PH DIN EN ISO4957 X5CrNiCuNb17-4 AISI 630	<0,08	<1,00	<1,00	14,00 ÷ 17,00		3,00 ÷ 5,00	2,50 ÷ 5,00	0,15 ÷ 0,45		Solution treated Age hardened	≤ 360 HB 300-350 HB	ESR version of LUCCHINI 4542. Improved isotropy to achieve better polishability.

N normalized | QT quenched and tempered | A annealed

LOOK BEYOND



BRINGING TOOL STEELS TO YOUR DOOR

WORLDWIDE DISTRIBUTION

Thanks to the strong partnership with International Distributors and Service Centres, Lucchini RS Group is able to reach the most important markets all over the world.

EUROPEAN OFFICIAL DISTRIBUTOR & SERVICE CENTRE

LUCCHINI
FA.RO.

milano@lucchini-faro.com
www.lucchinifaro.com

GROUP
LUCCHINI RS



DISCOVER OUR
AUTHORIZED
DISTRIBUTORS
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CENTRES
IN THE WORLD.

LOOK BEYOND





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LOOK BEYOND