

14

LIMAS, ESCOFINAS, BOTADORES Y GRANETES

FILES, RASPS & PUNCHES

LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES

FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER

LIMA, RASPE E PUNZONI

LIMAS, GROSAS E PUNÇÕES

НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ



La gama completa de limas y escofinas super-profesionales EGA Master ofrece soluciones a todas las necesidades de acabado.

EGA Master super-professional file and rasp range offers solutions to all finishing needs.

La gamme complète de limes et de râpes super professionnelles EGA Master donne une solution à tous les problèmes.

		Debaste <i>Roughing</i> Bâtarde	Limado medio <i>Medium filing</i> Demi-douce	Afilado o limado fino <i>Sharpening or smooth filing</i> Douce
Picado sencillo <i>Single cut</i> Une taille			■	■
Picado doble <i>Double cut</i> Doble coupe	Basto <i>Bastard</i> Bâtard	■	●	
	Entrefino <i>Medium</i> Demi douce		■	●
	Fino <i>Smooth</i> Douce		■	■
Escofina <i>Rasp</i> Râpe		■		

● Aceptable / *Acceptable* / Acceptable ■ Adecuado / *Appropriate* / Idéal



1

Acero alto en cromo y carbono.
High chrome and carbon steel.
Acier en haute teneur en chrome et carbone.

2

Templados hasta los 65 HRC.
Tempered up to 65HRC.
Trempe jusqu'à 65HRC.

3

Mango Bi-componente ergonómico y antideslizante BIMAT® de gran atractivo.
Highly attractive BIMAT® ergonomic and anti-slippery handle.
Manche bi-matière, ergonomique et anti-dérapant très attrayant.

4



Protección antioxidante.
Rust-proof treatment.
Protection anti-oxydation.

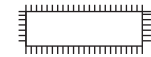
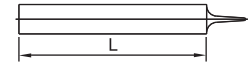
		Fundición <i>Casting</i> Fonte	Acero sin templar <i>Non Templed alloy</i> Acier	Acero de alta aleación <i>High Alloy steel</i> Alliage d'acier	Latón bronce <i>Brass Bronze</i> Laiton bronze	Aluminio <i>Aluminium</i> Aluminium	Madera, Plásticos... <i>Wood, plastic...</i> Bois, plastique...
Picado sencillo <i>Single cut</i> Une taille			■	■			
Picado doble <i>Double cut</i> Doble coupe	Basto <i>Bastard</i> Bâtard	■	■	●	■	■	●
	Entrefino <i>Medium</i> Demi douce	■	■	■	■	■	
	Fino <i>Smooth</i> Douce	●	■	■	●		
Escofina <i>Rasp</i> Râpe							■

● Aceptable / *Acceptable* / Acceptable ■ Adecuado / *Appropriate* / Idéal

STANDARD

LIMAS PLANAS PARALELAS / HAND FILES / LIMES PLATES PARALLELES / FLACHSTUMPF / LIMA PIATTA PARALLELA / LIMAS PARALELAS / РУЧНЫЕ НАПИЛЬНИКИ

COD.	L (inch)	W/cm		A (mm)	B (mm)	g	
63491	4	1	85	12	2,5	45	
63492		2					
63493		3					
63494	6	1	114	16	4,0	90	
63495		2					
63496		3					
63497	8	1	135	20	5,0	200	5
63498		2					
63499		3					
63500	10	1	135	35	6,0	310	
63501		2					
63502		3					
63503	12	1	135	30	6,5	410	
63504		2					
63505		3					
63506	14	1	135	35	7,5	650	
63507		2					
63508		3					



1: Basta / Bastard / Bâtarde
 2: Entrefina / Medium / Demi-douce
 3: Fina / Smooth / Douce



ISO 234/1 - ISO 234/2

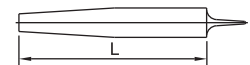
ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme ISO 234/2 (+/- 8%)

Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme ISO 234/2 (65° +/- 5%)

LIMAS PLANAS DE PUNTA / FLAT FILES / LIMES PLATES DE BOUT / FLACHSPITZ / LIMA PIATTA A PUNTA / LIMAS CHATAS / ПЛОСКИЕ НАПИЛЬНИКИ

COD.	L (inch)	W/cm		A (mm)	B (mm)	g	
63527	4	1	85	12	2,5	40	
63528		2					
63529		3					
63530	6	1	114	16	4,0	80	
63531		2					
63532		3					
63533	8	1	135	20	5,0	180	5
63534		2					
63535		3					
63536	10	1	135	35	6,0	270	
63537		2					
63538		3					
63539	12	1	135	30	6,5	370	
63540		2					
63541		3					
63542	14	1	135	35	7,5	600	
63543		2					
63544		3					



1: Basta / Bastard / Bâtarde
 2: Entrefina / Medium / Demi-douce
 3: Fina / Smooth / Douce

ISO 234/1 - ISO 234/2

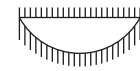
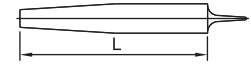
ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme ISO 234/2 (+/- 8%)

Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme ISO 234/2 (65° +/- 5%)

■ **LIMAS MEDIA CAÑA / HALF ROUND FILES / LIMES DEMI-RONDES / HALBRUND-FEILEN, SPITZE FORM / LIMA MEZZATONDA / LIMAS MEIA CANA / ПОЛУКРУГЛЫЕ НАПИЛЬНИКИ**

COD.	L (inch)	M/cm			A (mm)	B (mm)		
63563	4	1	14	85	10,5	3,0	24	
63564		2	22					
63565		3	28					
63566	6	1	11	114	16	4,5	70	5
63567		2	18					
63568		3	22					
63569	8	1	10	135	20	6,0	150	
63570		2	16					
63571		3	20					
63572	10	1	9	135	25	7,0	260	
63573		2	12					
63574		3	18					
63575	12	1	8	135	30	8,5	370	
63576		2	11					
63577		3	16					
63578	14	1	7,0	135	35	10	650	
63579		2	10					
63580		3	14					



1: Basta / Bastard / Bâtarde
 2: Entrefina / Medium / Demi-douce
 3: Fina / Smooth / Douce

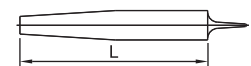
ISO 234/1 - ISO 234/2

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme	ISO 234/2 (+/- 8%)
Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme	ISO 234/2 (65° +/- 5%)

■ **LIMAS TRIANGULARES / TRIANGULAR FILES / LIMES TRIANGULAIRES / DREIKANTFEILEN / LIMA TRIANGOLARE / LIMATÕES TRIANGULARES / ТРЕУГОЛЬНЫЕ НАПИЛЬНИКИ**

COD.	L (inch)	M/cm			A (mm)		
63599	4	1	14	85	8,0	27	
63600		2	22				
63601		3	28				
63602	6	1	11	114	11	70	5
63603		2	18				
63604		3	22				
63605	8	1	10	135	15	150	
63606		2	16				
63607		3	20				
63608	10	1	9	135	17	205	
63609		2	12				
63610		3	18				
63611	12	1	8,0	135	20	340	
63612		2	11				
63613		3	16				
63614	14	1	7	135	24	600	
63615		2	10				
63616		3	14				



1: Basta / Bastard / Bâtarde
 2: Entrefina / Medium / Demi-douce
 3: Fina / Smooth / Douce

ISO 234/1 - ISO 234/2

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme	ISO 234/2 (+/- 8%)
Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme	ISO 234/2 (65° +/- 5%)

■ **LIMAS CUADRADAS / SQUARE FILES / LIMES CARREES / VIERKANTFEILEN / LIMA QUADRA / LIMATÕES QUADRADOS / КВАДРАТНЫЕ НАПИЛЬНИКИ**

COD.	L (inch)	M/cm			A (mm)		
63635	4	1	14	85	4,0	18	
63636		2	22				
63637		3	28				
63638	6	1	11	114	6,0	36	5
63639		2	18				
63640		3	22				
63641	8	1	10	135	8,0	95	
63642		2	16				
63643		3	20				
63644	10	1	9	135	10	130	
63645		2	12				
63646		3	18				
63647	12	1	8	135	12	390	
63648		2	11				
63649		3	16				
63650	14	1	7	135	15	550	
63651		2	10				
63652		3	14				

1: Basta / Bastard / Bâtarde
 2: Entrefina / Medium / Demi-douce
 3: Fina / Smooth / Douce

ISO 234/1 - ISO 234/2

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme ISO 234/2 (+/- 8%)

Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme ISO 234/2 (65° +/- 5%)



■ **LIMAS REDONDAS / ROUND FILES / LIMES RONDES / RUNDFEILEN / LIMA TONDA / LIMATÕES REDONDOS / КРУГЛЫЕ НАПИЛЬНИКИ**

COD.	L (inch)	M/cm			A (mm)		
63671	4	1	13	85	4,0	13	
63672		2	16				
63673		3	19				
63674	6	1	11	114	6,0	34	5
63675		2	14				
63676		3	17				
63677	8	1	10	135	7,5	75	
63678		2	13				
63679		3	16				
63680	10	1	9	135	9,5	150	
63681		2	12				
63682		3	15				
63683	12	1	8	135	12	270	
63684		2	11				
63685		3	14				
63686	14	1	7	135	15	550	
63687		2	10				
63688		3	13				

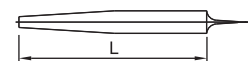
1: Basta / Bastard / Bâtarde
 2: Entrefina / Medium / Demi-douce
 3: Fina / Smooth / Douce

ISO 234/1 - ISO 234/2

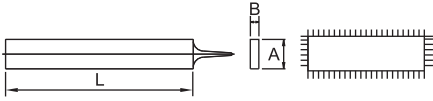
ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme ISO 234/2 (+/- 8%)

Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme ISO 234/2 (65° +/- 5%)



■ LIMA PLANA / FARMER'S OWN / LIME PLATE / FLACHFEILEN / LIMA PIATTA / LIMA PLANA / ФЕРМЕРСКИЙ НАПИЛЬНИК



COD.	L (inch)		W/cm	A (mm)	B (mm)	g	
63689	8	2	16	25	5,0	230	10

2 : Entrefina / Medium / Demi-douce

ISO 234/1 - ISO 234/2



■ JUEGOS / SETS / JEUX / SÄTZE / ASSORTIMENTI / JOGOS / НАБОРЫ

JUEGO DE 5 LIMAS DE 10" BASTA / 10" BASTARD FILE SET 5 PCS / JEU DE 5 LIMES BATARDES 10" / SET BASTARD FEILEN 5 STÜCK / KIT 5 LIME BASTARDE 10" / JOGO DE 5 LIMAS DE 10" BASTARDAS / 10" ГРУБЫЕ НАПИЛЬНИКИ НАБОР ИЗ 5 ШТ

COD.	PCS.
63760	5

PCS./UN.	COD.	PCS.	Descripción / Description / Description	L (inch)
	63536		Lima plana punta basta / Bastard flat file	
	63572		Lima media caña basta / Bastard half round file	
1	63608		Lima triangular basta / Bastard triangular file	10
	63644		Lima cuadrada basta / Bastard square file	
	63680		Lima redonda basta / Bastard round file	



JUEGO DE 5 LIMAS DE 10" ENTREFINA / 10" MEDIUM FILE SET 5 PCS / JEU DE 5 LIMES DEMI-DOUCES 10" / SET MEDIUM FEILEN 5 STÜCK / KIT 5 LIME EXTRA FINE 10" / JOGO DE 5 LIMAS 10" MEIO MURÇO / 10" СРЕДНИЕ НАПИЛЬНИКИ НАБОР ИЗ 5 ШТ

COD.	PCS.
63762	5

PCS./UN.	COD.	PCS.	Descripción / Description / Description	L (inch)
	63537		Lima plana punta entrefina / Medium flat file	
	63573		Lima media caña entrefina / Medium half round file	
1	63609		Lima triangular entrefina / Medium triangular file	10
	63645		Lima cuadrada entrefina / Medium square file	
	63681		Lima redonda entrefina / Medium round file	



JUEGO DE 5 LIMAS DE 10" FINA / 10" SMOOTH FILE SET 5 PCS / JEU DE 5 LIMES DOUCES 10" / SET SCHLICHT FEILEN 5 STÜCK / KIT 5 LIME FINE 10" / JOGO DE 5 LIMAS 10" MURÇO / 10" МЕЛКИЕ НАПИЛЬНИКИ НАБОР ИЗ 5 ШТ

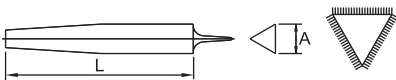
COD.	PCS.
63767	5

PCS./UN.	COD.	PCS.	Descripción / Description / Description	L (inch)
	63538		Lima plana punta fina / Smooth flat file	
	63574		Lima media caña fina / Smooth half round file	
1	63610		Lima triangular fina / Smooth triangular file	10
	63646		Lima cuadrada fina / Smooth square file	
	63682		Lima redonda fina / Smooth round file	



LIMAS AFILADO / SHARPENING FILES / LIMES AIGUILLES / PRÄZISIONSNADELFEILEN DÜNN / LIMA AFFILATA / LIMAS DE AFIAR, DE AGRICULTOR / ЗАТАЧИВАЮЩИЕ НАПИЛЬНИКИ

LIMA TRIANGULAR DELGADA / SLIM TAPER SAW / LIME TRIANGULAIRE ETROITE / PRÄZISIONSNADELFEILEN DÜNN / LIMA TRIANGOLARE / LIMAS TRIANGULARES FINAS / ТРЕУГОЛЬНЫЙ НАПИЛЬНИК



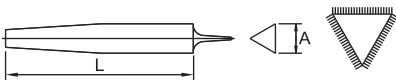
COD.	L (inch)			A (mm)	g	
63692	4	4	85	4,5	10	5
63693	5			6,0	25	

4: Extrafina / Very smooth / Extrafine

ISO 234/1 - ISO 234/2



LIMA TRIANGULAR EXTRA-DELGADA / EXTRA REGULAR TAPER SAW / LIME EXTRA FINE / DREIKANTFEILEN / LIMA TRIANGOLARE EXTRA-SOTTILE / LIMAS TRIANGULARES EXTRA-FINAS / МЕЛКИЙ ТРЕУГОЛЬНЫЙ НАПИЛЬНИК



COD.	L (inch)			A (mm)	g	
63696	4	4	85	4,0	10	5
63697	5			5,0	20	

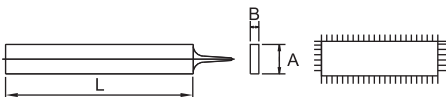
4: Extrafina / Very smooth / Extrafine

ISO 234/1 - ISO 234/2



ESCOFINAS / RASPS / RAPES / SCHABER / RASPA / GROSAS / РАШПИЛИ

ESCOFINAS PLANAS PARALELAS / HAND WOOD RASPS / RAPES PLATES PARALLELES / FLACH RAPES / RASPA PIATTA PARALLELA / GROSAS PARALELAS / РУЧНЫЕ РАШПИЛИ ПО ДЕРЕВУ

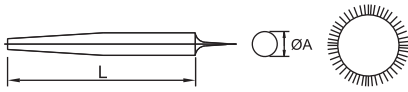


COD.	L (inch)	W/cm		A (mm)	B (mm)	g		
63700	10		115	24	7,0	125	5	
63701	12	3	135	28	8,0	220		•

ISO 234/1 - ISO 234/2



■ ESCOFINAS REDONDAS / ROUND RASPS / RAPES RONDES / RUNDE RAPES / RASPA TONDA / GROSAS REDONDAS / КРУГЛЫЕ РАШПИЛИ

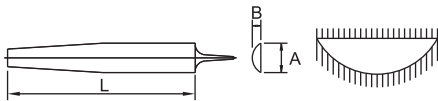


COD.	L (inch)	W/cm	Icon	A (mm)	g	Icon
63712	8	3	114	9,5	60	5
63713	10	3	114	11	125	5

ISO 234/1 - ISO 234/2



■ ESCOFINAS MEDIA CAÑA / HALF ROUND RASPS / RAPES DEMI-ROND / HALBRUND RAPES / RASPA MEZZOTANDA / GROSAS MEIA CANA / ПОЛУКРУГЛЫЙ РАШПИЛЬ



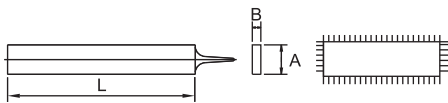
COD.	L (inch)	W/cm	Icon	A (mm)	B (mm)	g	Icon
63706	6	3	85	16	4,0	80	5
63707	8	3	114	20	5,5	140	
63708	10	3	114	24	7,0	240	
63709	12	3	135	28	8,0	370	

ISO 234/1 - ISO 234/2



■ LIMAS DE AGUJA / NEEDLE FILES / LIMES AIGUILLES / NADELFEILEN / LIMA A PUNTA / LIMAS DE CALADO / НАДФИЛИ

■ LIMAS PLANAS PARALELAS / HAND FILES / LIMES PLATES PARALLELES / FLACHSTUMPF / LIMA PIATTA PARALLELA / LIMAS PARALELAS / РУЧНОЙ НАДФИЛЬ



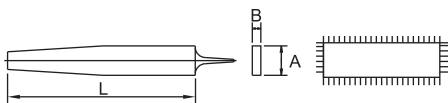
COD.	L (inch)	W/cm	A (mm)	B (mm)	g	Icon	Icon
63714	6	2	25	16	3,3	70	24

2: Entrefina / Medium / Demi-douce

ISO 234/1 - ISO 234/2



■ LIMAS PLANAS DE PUNTA / FLAT FILES / LIMES PLATES DE BOUT / NADELFLACHSTUMPF / LIMA PIATTA A PUNTA / LIMAS CHATAS / ПЛОСКИЙ НАДФИЛЬ



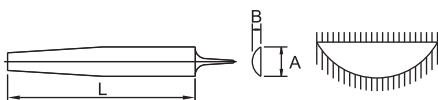
COD.	L (inch)	W/cm	A (mm)	B (mm)	g	Icon	Icon
63715	6	2	25	16	3,3	65	24

2: Entrefina / Medium / Demi-douce

ISO 234/1 - ISO 234/2



■ LIMAS MEDIA CAÑA / HALF ROUND FILES / LIMES DEMI-RONDES / HALBRUND-FEILEN / LIMA MEZZATONDA / LIMAS MEIA CANA / ПОЛУКРУГЛЫЙ НАДФИЛЬ



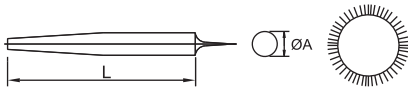
COD.	L (inch)	W/cm	A (mm)	B (mm)	g	Icon	Icon
63716	6	2	25	16	4,2	65	24

2: Entrefina / Medium / Demi-douce

ISO 234/1 - ISO 234/2



■ **LIMAS REDONDAS / ROUND FILES / LIMES RONDES / RUNDFEILEN / LIMA TONDA / LIMATÕES REDONDOS / КРУГЛЫЙ НАДФИЛЬ**

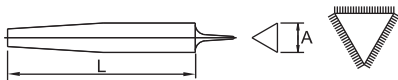


COD.	L (inch)		W/cm	A (mm)	g		
63717	6	2	25	5,5	30	24	●

2 : Entrefina / Medium / Demi-douce
 ISO 234/1 - ISO 234/2



■ **LIMAS TRIANGULARES / TRIANGULAR FILES / LIMES TRIANGULAIRES / DREIKANTFEILEN / LIMA TRIANGOLARE / LIMAS TRIANGULARES / ТРЕУГОЛЬНЫЙ НАДФИЛЬ**

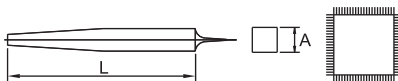


COD.	L (inch)		W/cm	A (mm)	g		
63718	6	2	25	11	60	24	●

2 : Entrefina / Medium / Demi-douce
 ISO 234/1 - ISO 234/2



■ **LIMAS CUADRADAS / SQUARE FILES / LIMES CARRÉES / VIERKANTFEILEN / LIMA QUADRA / LIMATÕES QUADRADOS / КВАДРАТНЫЙ НАДФИЛЬ**



COD.	L (inch)		W/cm	A (mm)	g		
63719	6	2	25	5,0	35	24	●

2 : Entrefina / Medium / Demi-douce
 ISO 234/1 - ISO 234/2



■ **SET**

COD.	PCS.
63768	6

PCS./UN.	COD. PCS.	L (inch)
1	63714	6
	63715	
	63716	
	63717	
	63718	
	63719	

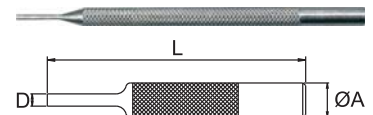


■ **BOTADORES CILÍNDRICOS / PIN PUNCHES / CHASSES GOUPILLES / DURCHSCHLÄGER / PUNZONE CILINDRICO / PUNÇÕES CILÍNDRICOS / ПРОБОЙНИКИ**

■ **MOLETEADOS / KNURLED / MOLETAGE / GERÄNDILT / ZIGRINATO / RECARTILHADOS / С НАСЕЧКОЙ**

COD.	D (mm)	L (mm)	A (mm)	g	
63380	2	125	8	40	25
63381	3			41	
63382	4			43	
63383	5			45	
63384	6			47	
63385	8			53	
63386	10	63	125		

DIN 6450



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

SET

COD.	PCS.
68590	7

PCS./UN.	COD. PCS.	D (mm)
1	63380	2
	63381	3
	63382	4
	63383	5
	63384	6
	63385	8
	63386	10



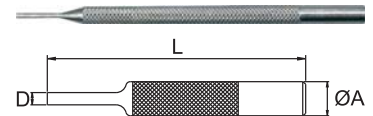
MOLETEADOS LARGOS / LONG KNURLED / LONG MOLETAGE / LANG GERÄNDELT / ZIGRINATO LARGO / RECARTILHADOS LONGOS / ДЛИННЫЕ С НАСЕЧКОЙ

COD.	D (mm)	L (mm)	A (mm)	g	Icon
63387	2	150	10	49	25
63388	3			50	
63389	4			55	
63390	5			75	
63391	6			80	
63392	8			115	
63393	10			160	

DIN 6450

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



SET

COD.	PCS.
68591	7

PCS./UN.	COD. PCS.	D (mm)
1	63387	2
	63388	3
	63389	4
	63390	5
	63391	6
	63392	8
	63393	10



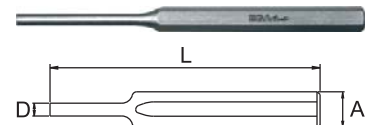
HEXAGONALES / HEXAGONAL / A SIX PANS / HEXAGONAL / ESAGONALI / HEXAGONAIS / ШЕСТИГРАННАЯ

COD.	D (mm)	L (mm)	A (mm)	g	Icon
63394	2	150	10	28	25
63395	3			40	
63396	4			42	
63397	5			65	
63398	6			70	
63399	8			90	
63400	10			95	

DIN 6450

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



SET

COD.	PCS.
63763	7

PCS./UN.	COD. PCS.	D (mm)
1	63394	2
	63395	3
	63396	4
	63397	5
	63398	6
	63399	8
	63400	10



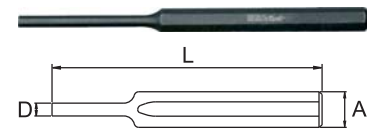
OCTOGONAL / OCTOGONAL / ОКТОГОНАЛ / OCTOGONAL / OTTAGONALE / OCTOGONAIS / ВОСЬМИГРАННЫЕ

COD.	D (mm)	L (mm)	A (mm)		
63401	2	150	10	65	25
63402	3				
63403	4				
63404	5				
63405	6				
63406	8				
63407	10				

DIN 6450

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



SET

COD.	PCS.
68592	7

PCS./UN.	COD. PCS.	D (mm)
1	63401	2
	63402	3
	63403	4
	63404	5
	63405	6
	63406	8
	63407	10



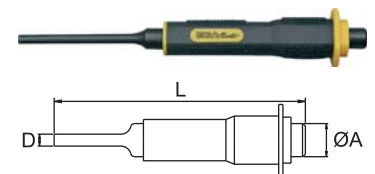
CON MANGO / WITH HANDLE / AVEC MANCHE / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ

COD.	D (mm)	L (mm)	A (mm)		
63447	2	165	8	65	10
63448	3	175			
63449	4	185	10	100	
63450	5	200		110	
63451	6			150	
63452	7	210	12	160	
63453	8			170	
63454	9	220	14	230	
63455	10			240	
63456	12	230	16	330	
63457	14	240		430	
63458	16	250	18	500	

DIN 6450



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



■ **BOTADORES CÓNICOS / TAPER PUNCHES / CHASSE CLOU / KÖRNER / PUNZONE CONICO / PUNÇÕES CÓNICOS / КОНИЧЕСКИЕ ПРОБОЙНИКИ**

■ **MOLETEADOS / KNURLED / MOLETAGE / GERÄNDELT / ZIGRINATO / RECARILHADOS / С НАСЕЧКОЙ**

COD.	D (mm)	L (mm)	A (mm)		
63408	2	125	8	44	25
63409	3			45	
63410	4			47	
63411	5		10	70	
63412	6		12	100	
63413	8		14	130	
63414	10				

DIN 6458

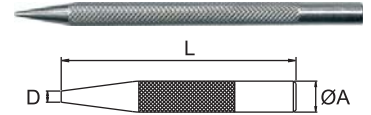
CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



■ **SET**

COD.	PCS.
68593	7

PCS./UN.	COD. PCS.	D (mm)
1	63408	2
	63409	3
	63410	4
	63411	5
	63412	6
	63413	8
	63414	10



■ **HEXAGONALES / HEXAGONAL / A SIX PANS / HEXAGONAL / ESAGONALI / HEXAGONAIS / ШЕСТИГРАННАЯ**

COD.	D (mm)	L (mm)	A (mm)		
63415	2	125	10	60	25
63416	3			65	
63417	4			70	
63418	5		110		
63419	6		120		
63420	8	150	12		
63421	10				

DIN 6458

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



■ **SET**

COD.	PCS.
63764	7



PCS./UN.	COD. PCS.	D (mm)
1	63415	2
	63416	3
	63417	4
	63418	5
	63419	6
	63420	8
	63421	10



■ **OCTOGONAL / OCTOGONAL / ОКТОГОНАЛ / OCTOGONAL / OTTAGONALE / OCTOGONAIS / ВОСЬМИГРАННЫЕ**

COD.	D (mm)	L (mm)	A (mm)		
63422	2	120	10	60	25
63423	3			65	
63424	4			75	



COD.	D (mm)	L (mm)	A (mm)		
63425	5	150	10	80	25
63426	6		12	120	
63427	8		12	135	
63428	10		12	135	

DIN 6458

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES



Cr-V

SET

COD.	PCS.
68594	7

PCS./UN.	COD. PCS.	D (mm)
1	63422	2
	63423	3
	63424	4
	63425	5
	63426	6
	63427	8
	63428	10


CON MANGO / WITH HANDLE / CHASSE CLOU EMMENCHÉ / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ



COD.	D (mm)	L (mm)	A (mm)		
63459	2	165	8	75	10
63460	3	175		80	
63461	4	185		110	
63462	5	185	10	115	
63463	6		120		
63464	8		170		
63465	10	200	12	200	

DIN 6458

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

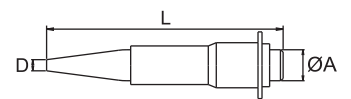
GRANETES / CENTER PUNCHES / POINTEAUX / KÖRNER / PUNZONI / PUNÇÕES / МЕТЧИКИ
MOLETEADOS / KNURLED / MOLETAGE / GERÄNDEL / ZIGRINATO / RECARILHADOS / С НАСЕЧКОЙ

COD.	D (mm)	L (mm)	A (mm)		
63429	2,5	125	8	42	25
63430	3		8	43	
63431	4		10	45	
63432	6		12	70	
63433	8		14	100	
63434	10		14	130	

DIN 7250

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V





SET

COD.		PCS.
68595		6

PCS./UN.	COD. PCS.	D (mm)
1	63429	2,5
	63430	3
	63431	4
	63432	6
	63433	8
	63434	10



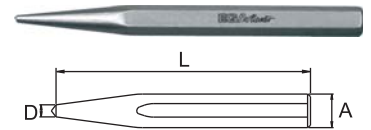
HEXAGONALES / HEXAGONAL / A SIX PANS / HEXAGONAL / ESAGONALI / HEXAGONAIS / ШЕСТИГРАННАЯ

COD.	D (mm)	L (mm)	A (mm)		
63435	2,5	100	8	35	25
63436	3				
63437	4				
63438	6				
63439	8				
63440	10				

DIN 7250

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V





SET

COD.		PCS.
63765		6

PCS./UN.	COD. PCS.	D (mm)
1	63435	2,5
	63436	3
	63437	4
	63438	6
	63439	8
	63440	10



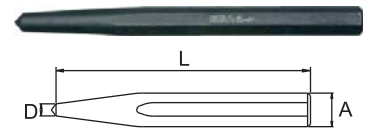
OCTOGONAL / OCTOGONAL / ОКТОГОНАЛ / OCTOGONAL / OTTAGONALE / OCTOGONAIS / ВОСЬМИГРАННЫЕ

COD.	D (mm)	L (mm)	A (mm)		
63441	2,5	120	10	60	25
63442	3				
63443	4				
63444	6				
63445	8				
63446	10				

DIN 7250

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



SET

COD.		PCS.
68596		6

PCS./UN.	COD. PCS.	D (mm)
1	63441	2,5
	63442	3
	63443	4
	63444	6
	63445	8
	63446	10



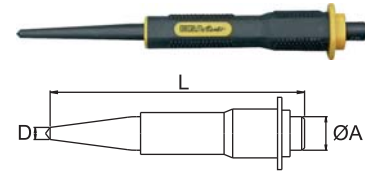
CON MANGO / WITH HANDLE / POINTEAU EMMENCHÉ / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ

COD.	D (mm)	L (mm)	A (mm)	g	
63466	2	165	8	75	10
63467	3				
63468	4	175	10	115	
63469	5				
63470	6				
63471	8	185	12	165	

DIN 7250

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



SET

CINCELES, BOTADORES Y GRANETES / CHISELS AND PUNCHES / BURINS, CHASSE-GOUPILLES, CHASSE-CLOUS / MEISSEL UND DURCHSCHLÄGE / SCALPELLI E PUNZONI / ESCOPROS, SACA-TROÇOS E PUNÇÕES / ДОЛОТА И ПРОБОЙНИКИ

6 PCS.

COD.	PCS.	g
69953	6	700

PCS./UN.	COD.	PCS.	Descripción / Description / Description	
1	62847	1	Cinzel mecánico / Flat cold chisel	12 x 11 x 100 mm
	62848			15 x 14 x 125 mm
	63398	1	Botador cilíndrico / Pin punch	6 x 10 x 150 mm
	63396			4 x 8 x 150 mm
	63416			3 x 10 x 125 mm
	63436			3 x 8 x 100 mm

COD.	PCS.	g
69954	6	700

PCS./UN.	COD.	PCS.	Descripción / Description / Description	
1	62847	1	Cinzel mecánico / Flat cold chisel	12 x 11 x 100 mm
	62848			15 x 14 x 125 mm
	62871	1	Butil plano / Crosscut chisel	5 x 14 x 125 mm
	63396			4 x 8 x 150 mm
	63416			3 x 10 x 125 mm
	63436			3 x 8 x 100 mm




BOTADORES CILÍNDRICOS / PIN PUNCHES / CHASSE GOUPILLES / RUNDDURCHSCHLÄGER / PUNZONE CILINDRICO / PUNÇÕES CILÍNDRICAS / ПРОБОЙНИКИ

6 PCS.

COD.	PCS.	g
69957	6	500

PCS./UN.	COD.	PCS.	Descripción / Description / Description	
1	63394	1	Botador cilíndrico / Pin punch	2 x 8 x 100 mm
	63395			3 x 8 x 150 mm
	63396			4 x 8 x 150 mm
	63397			5 x 10 x 150 mm
	63398			6 x 10 x 150 mm
	63399			8 x 12 x 150 mm




COD.	PCS.	
69958	6	700

PCS./UN.	COD. PCS.	Descripción / Description / Description	
1	63394	Botador cilíndrico / Pin punch	2 x 8 x 100 mm
	63395		3 x 8 x 150 mm
	63396		4 x 8 x 150 mm
	63397		5 x 10 x 150 mm
	63398		6 x 10 x 150 mm
	63399		8 x 12 x 150 mm

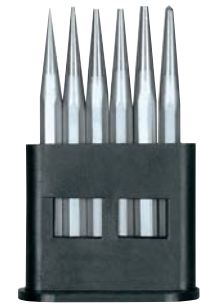



■ **BOTADORES Y GRANETES / PUNCHES / POINTEAUX / DURCHSCHLÄGE / PUNZONI / SACA-TROÇOS E PUNÇÕES / ПРОБЙНИКИ**

■ **6 PCS.**

COD.	PCS.	
69955	6	700

PCS./UN.	COD. PCS.	Descripción / Description / Description	
1	63415	Botador cónico / Taper punch	2 x 10 x 125 mm
	63416		3 x 10 x 125 mm
	63417		4 x 10 x 125 mm
	63418		5 x 10 x 125 mm
	63419		6 x 10 x 125 mm
	63437	Granete / Center punch	4 x 8 x 100 mm




COD.	PCS.	
69956	6	750

PCS./UN.	COD. PCS.	Descripción / Description / Description	
1	63415	Botador cónico / Taper punch	2 x 10 x 125 mm
	63416		3 x 10 x 125 mm
	63417		4 x 10 x 125 mm
	63418		5 x 10 x 125 mm
	63419		6 x 10 x 125 mm
	63437	Granete / Center punch	4 x 8 x 100 mm



■ **60 PCS.**

COD.	PCS.	
55565	60	4

PCS./UN.	COD. PCS.	Descripción / Description / Description	
5	63415	Botador cónico / Taper punch	2 x 10 x 125 mm
	63416		3 x 10 x 125 mm
	63417		4 x 10 x 125 mm
	63418		5 x 10 x 125 mm
	63419		6 x 10 x 125 mm
	63438	Granete / Center punch	8 x 12 x 150 mm
	63439		2 x 8 x 100 mm
	63394		3 x 8 x 150 mm
	63395		4 x 8 x 150 mm
	63396		5 x 10 x 150 mm
5	63397	Botador cilíndrico / Pin punch	6 x 10 x 150 mm
	63398		2 x 8 x 100 mm
	63399		3 x 8 x 150 mm
	63396		4 x 8 x 150 mm

