

# INGRAMATIC



Corporate Presentation

2022 - Sales Department

# SACMA GROUP – ALL YOU NEED



**INGRAMATIC**

Threading - Rolling



**SACMA** SEESI

Heading - Forming



**HS ASPE**

Tapping - Machining



**TECNO LIFT**

Loading - Moving

**OBM**

Parts Manufacturing

































# WORLDWIDE



5 Production sites, 5 Sales & Technical Service Centers, 24 Sales Agencies

Worldwide service and spare parts storages

# More than 50 years history

<p><b>1966</b> Creation of the company <b>GR</b> rolling machines</p>	<p><b>1973</b> Design and manufacturing of flat die <b>thread rollers</b> machine RP1 e RP2</p>	<p><b>1976 / 78</b> Pinching machines and the washer assembly unit</p>	<p><b>80'</b> Ingramatic became the leader in France, Russia, Brazil and USA</p>	<p><b>90'</b> New design to thread parts after heat treatment New RP6 – RP7</p>	<p><b>2004</b> Ingramatic becomes a Sacma company</p>	<p><b>2006</b> <b>New building</b> in Castelnuovo Scivvia <b>Modular system</b> production</p>	<p><b>2007</b> New RP52 and RP32 New SC-Matic</p>	<p><b>2008</b> <b>VP machine</b> for headless parts</p>	<p><b>2009</b> New large thread roller model RP92 for M36 bolts</p>
									
									
<p><b>2012</b> "I-Thread" line with <b>motorized DM</b> and <b>patented double starter unit</b> = RP620</p>	<p><b>2013</b> New RP420 with the <b>new single starter unit</b> driven by servomotor</p>	<p><b>2014</b> New RP820 according the I-Thread concept</p>	<p><b>2015</b> New RP320 and RP520 series R1 and R2</p>	<p><b>2016</b> <b>New corporate identity</b> &amp; new RP720 with new washer assembly unit</p>	<p><b>2017</b> New RP220 series with <b>starter unit driven by torque motor</b></p>	<p><b>2018</b> New micro thread rollers model RP020 for miniature fasteners</p>	<p><b>2019</b> New RP120 and new RP920 for large parts</p>	<p><b>2020</b> <b>All machines available from M1 to M36 with WF, R1, R2, VP and torque motor technologies</b></p>	
									
									

## SACMA GROUP HEAD QUARTER

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**Sacma Limbiate Spa - Founded in 1939**

Sqm 60.000 with Sqm 38.000 covered - 170 employees

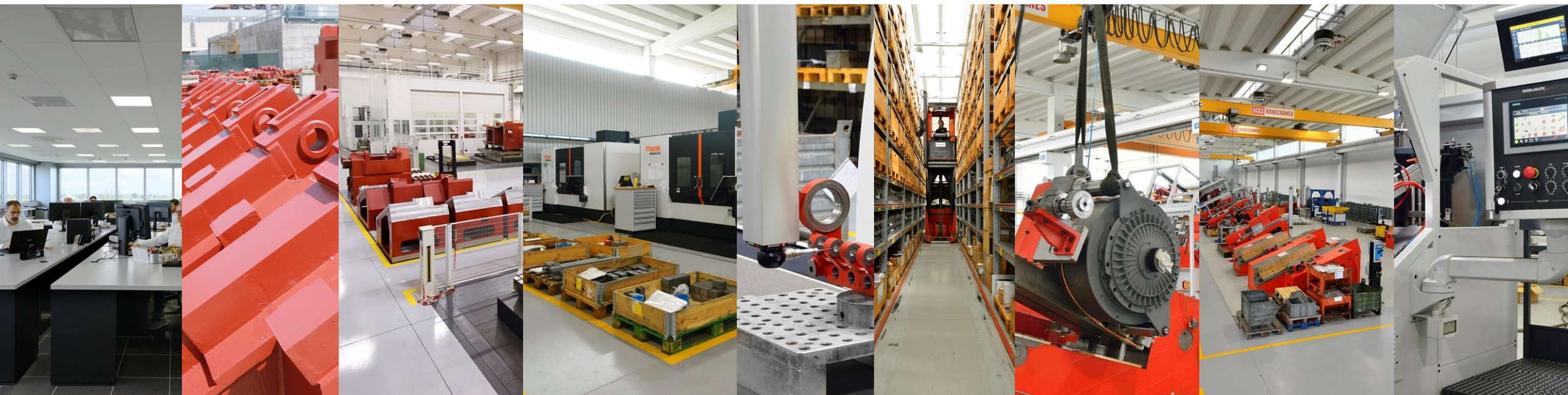
Headquarter / R&D department / Purchasing department / Financial department / Commercial department / Inventory / CAM department / Machining divisions  
Quality Control / Assembly and testing / Service Department

## INGRAMATIC DIVISION



INGRAMATIC = Sqm 20.000 with Sqm 5.000 covered - 30 employees  
R&D department / Purchasing department / Inventory / Machining divisions  
Quality Control / Assembly and testing / Service Department

# FULLY INTEGRATED PROCESS



More than 3.700 thread rolling machines in the world  
All components are manufactured inside

# TECHNICAL OFFICE



**R&D DEPARTMENT** : development of thread rolling machines in series  
N.5 Mechanical design engineers / Three-dimensional CAD / FEM software /  
Design of thread rolling machines / Customization / Manual handbook



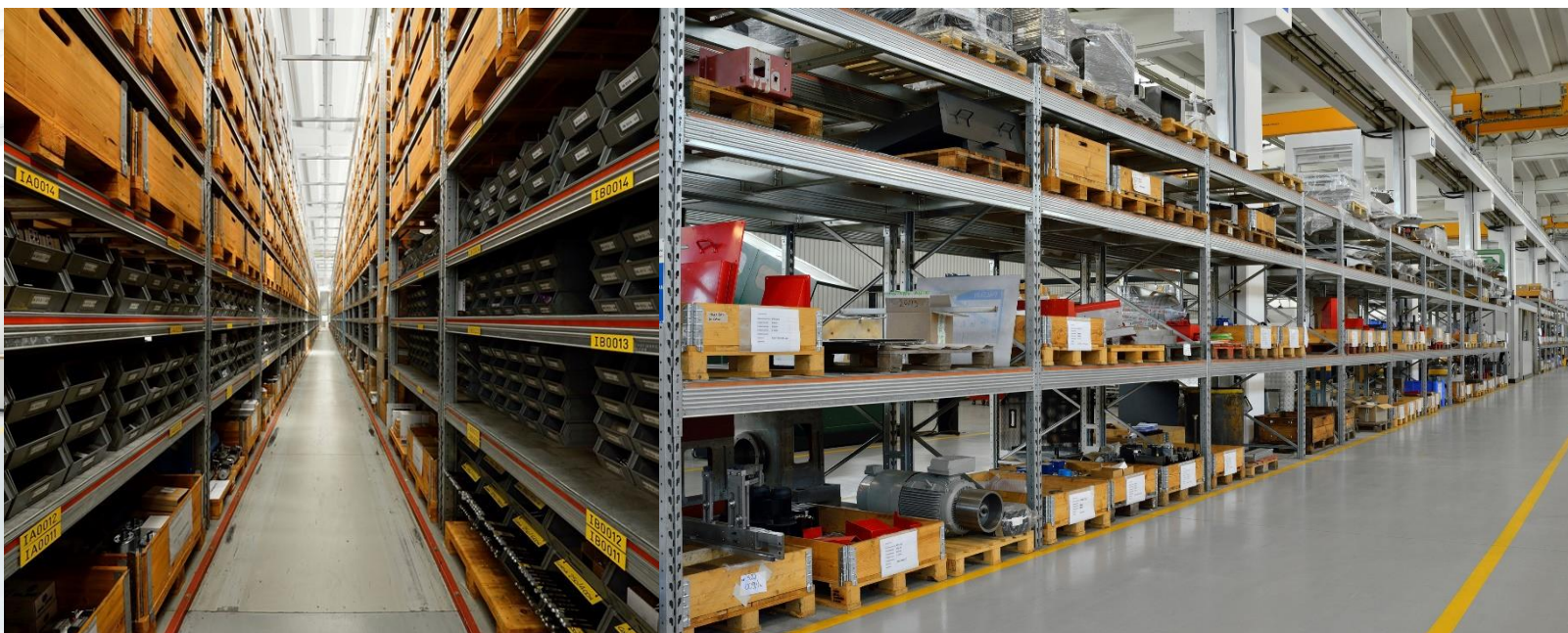
# MANUFACTURING DIVISION



## MANUFACTURING DIVISION

35% of the components are manufactured in the Ingramatic factory with milling, turning and grinding machines

# MODULAR INVENTORY



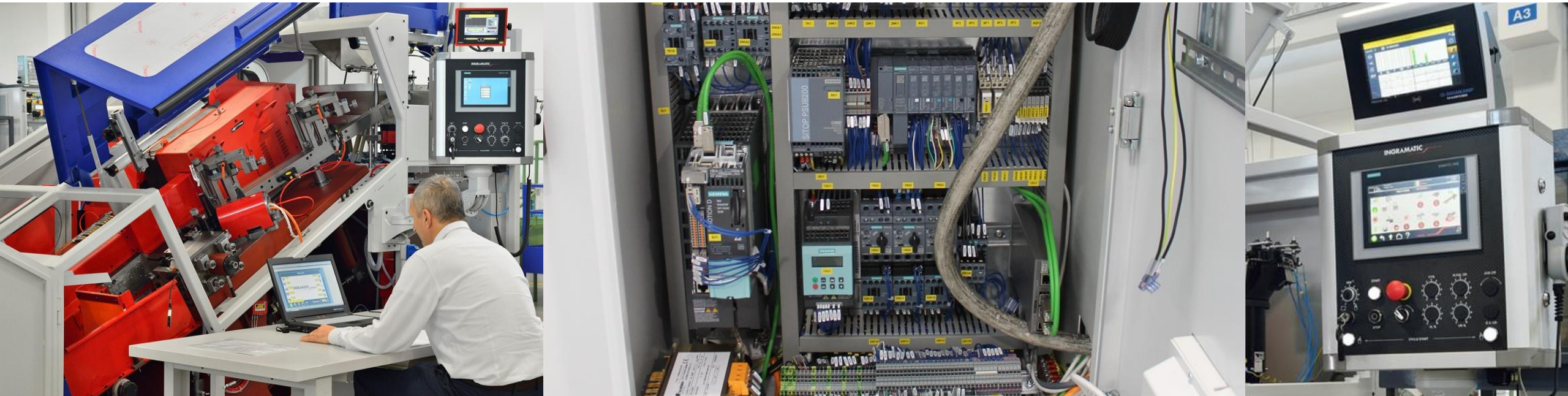
## MODULAR INVENTORY & STORAGE

Large storage system / Interchangeability of all components

# ELECTRICAL DEPARTMENT

## HARDWARE AND SOFTWARE

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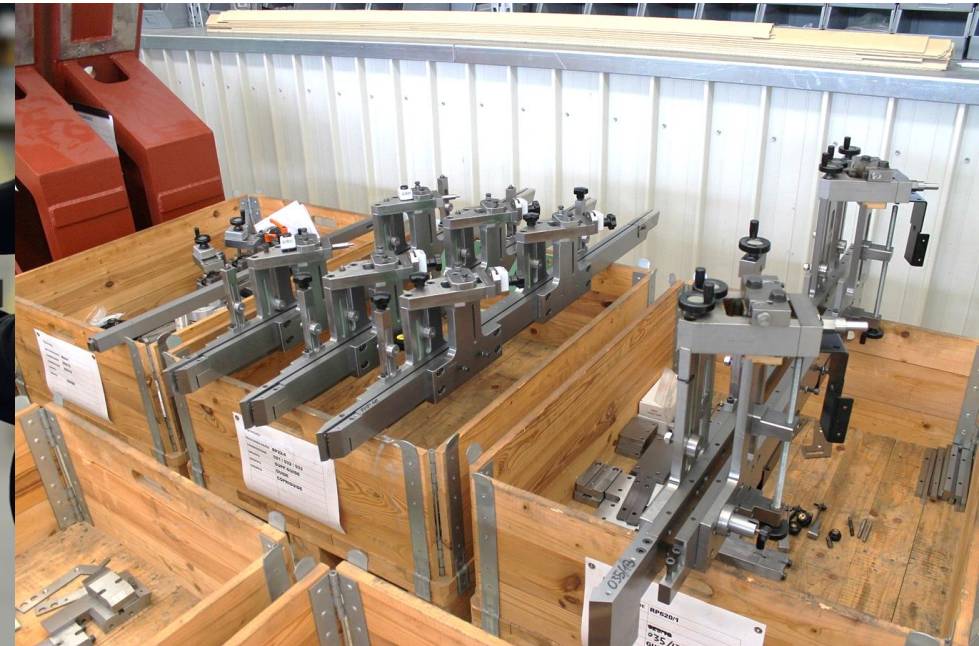


### HARDWARE AND SOFTWARE

Design and construction of the Electrical cabinets / Operator panels / Wiring / Load monitoring calibration

# PRE-ASSEMBLY DIVISION

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## PRE-ASSEMBLY DIVISION

Pre-assembly of subparts to speed up the main assembly process

# ASSEMBLY DIVISION



## ASSEMBLY DIVISION

Assembly lines organized for each machine size

# TESTING DIVISION



## TESTING DIVISION

Final running commissioning test with the customer

# GUIDE TO THE SYSTEM



**MICRO THREADERS**

Form M1 to M3  
W00/000



**SINGLE STARTER UNIT  
THREADERS**

From TR1/W1015 to TR5/W30  
with R1 or R2 washer assembly  
units  
VP unit for headless parts



**DOUBLE STARTER UNIT  
THREADERS**

From TR5/W30 to TR8/W60 with  
R1 or R2 washer assembly units  
VP unit for headless parts



**WARM THREADERS**

Up to 30KW heating units for  
aerospace fasteners



**MAXI THREADING &  
ROLLING MACHINES**

Up to M33 with 330mm shank  
length

# GUIDE TO THE SYSTEM

		GEWINDEWALZMASCHINEN   THREAD ROLLING MACHINES   ROULEUSES   ねじ転造機																	
EIGENSCHAFTEN   CHARACTERISTICS   CARACTERISTIQUES   機械仕様		RP020	RP120	RP220	RP220-R1	RP320	RP320-R1	RP420	RP420-R1	RP420-L	RP420-L-R1	RP520	RP520-R1	RP620	RP620-R1	RP720	RP720-R1	RP820	RP920
M- Motorisierung für die Phaseneinstellung der Walzbacken   M-Motorized M- Motorisé   機械仕様						M	M	M	M	M	M	M	M	M	M	M	M	M	M
Einstoßereinheit   Starter Unit   Introduceur   スターターユニット		Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Double	Double	Double	Double	Double	Double	Double	Double
EU WALZBACKEN   EU DIES   PEIGNES EU   EUダイス		-	TR1	TR2	TR2	TR3	TR3	TR4	TR4	TR5	TR5	TR5	TR5	TR6	TR6				
Länge feste Walzbacke   Fixed Die Length   Longueur peigne fixe   ダイス固定長さ		mm 38 (50)	85	115	115	130	130	150	150	190	190	190	190	230	230	280	280	381	483
Länge bewegliche Walzbacke   Moving die length Longueur peigne mobile   ダイス調整可能長さ		mm 45 (60)	95	130	130	150	150	170	170	210	210	210	210	255	255	305	305	405	508
Walzbackenstärke   Die thickness   Epaisseur peigne   ダイス厚さ		mm 12	25	30	30	40	40	40	40	40	40	50	50	50	50	50	50	57	62
Walzbackenhöhe   Die height   Hauteur peigne   ダイス高さ		mm 32	65	65	65	102,5	102,5	122,5	122,5	122,5	122,5	152,5	152,5	152,5	152,5	162,5	162,5	177,5	182,5
US WALZBACKEN   US DIES   PEIGNES US   USダイス		00/000	W1015	W10	W10	-	-	W20	W20	W30	W30	W30	W30	W40	W40	W50	W50	W60	W70
Länge feste Walzbacke   Fixed Die Length   Longueur peigne fixe   ダイス固定長さ		mm 44,5/38,1	88,9	107,95	107,95	-	-	152,4	152,4	190,5	190,5	190,5	190,5	228,6	228,6	279,4	279,4	381	482,6
Länge bewegliche Walzbacke   Moving die length Longueur peigne mobile   ダイス調整可能長さ		mm 50,8/45,2	101,6	127	127	-	-	171,45	171,45	215,9	215,9	215,9	215,9	254	254	304,8	304,8	406,4	508
Walzbackenstärke   Die thickness   Epaisseur peigne   ダイス厚さ		mm 17,46/12	20,64	23,8	23,8	-	-	30,15	30,15	42,86	42,86	42,86	42,86	42,86	42,86	49,2	49,2	55,55	61,9
Walzbackenhöhe   Die height   Hauteur peigne   ダイス高さ		mm 32	65	65	65	-	-	122,5	122,5	122,5	122,5	152,5	152,5	152,5	152,5	162,5	162,5	177,5	182,5
ROHLING   BLANK   PIECE   ブランク																			
Gewindedurchmesser   Thread Diameter   Filetage   ネジ径		mm M1 - M3	M2 - M6	M3 - M8	M3 - M8	M4 - M10	M4 - M10	M6 - M12	M6 - M12	M8 - M14	M8 - M14	M8 - M14	M8 - M14	M10 - M16	M10 - M16	M14 - M20	M14 - M20	M18 - M27	M20 - M33
Schaftlänge   Shank Length   Longueur sous tête   シャンク長さ		mm 50	100	100	100	140	140	180	180	160	160	250	250	250	250	300	200*	330	330
Gewindelänge   Thread length   Longueur filetage   ねじ長さ		mm 30	62,5	62,5	62,5	100	100	120	120	120	120	150	150	150	150	160	160	175	180
MASCHINE   MACHINE   MACHINE   マシン																			
Geschwindigkeitsbereich bis zu (Hub/min)°   Speed Range up to (rpm)° Vitesse jusqu'à (rpm)°   回転速度レンジ (rpm)°		No 450	600	410	300/410**	330	300/330**	260	220/260**	260	220/260**	180	150/180**	160	120/160**	120	100/120**	100	80
Motorleistung   Motor power   Puissance moteur   モーター出力		KW 4	11	15	15	15	15	18,5	18,5	18,5	18,5	22	22	30	30	45	45	55	75
Nettogewicht   Net mass   Masse nette   総重量ネット		Kg 1.600	3.800	4.000	5.000	7.300	8.000	7.300	8.500	8.000	8.700	10.000	12.000	10.500	12.500	15.000	17.300	20.000	45.000



# LOADING SYSTEM PRODUCT RANGE

BY **TECNO LIFT**



VERTICAL ELEVATOR WITH VIBRATING HOPPER



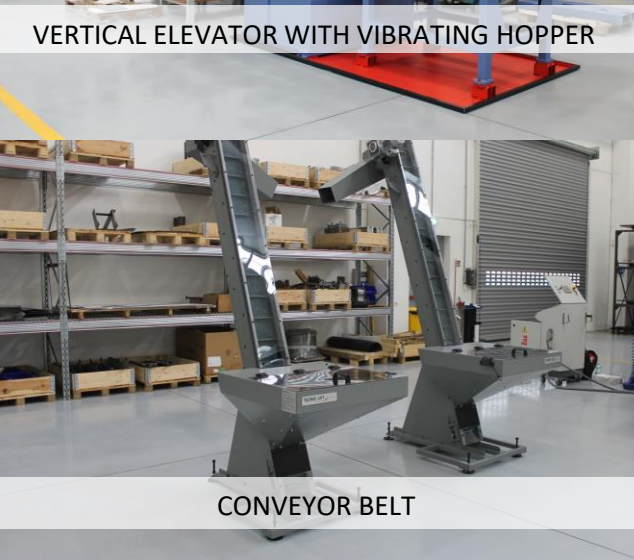
MONOBLOCK VERTICAL ELEVATOR



VIBRATING HOPPER



COMBINED WEIGHING HOPPER



CONVEYOR BELT



BIN TILTING ELEVATOR



BEFORE AFTER

REVISION



PORTER HOPPER

# INGRAMATIC



## Corporate Presentation

2022 - Sales Department

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