

TRF



Sistemas Avanzados de Procesamiento de Chapa
Advanced Plate Processing Systems



ORIGIN OF THE TRF

EXISTING MODELS

POWER DRIVE

CHARACTERISTICS

SPEEDS

BEVEL GEOMETRIES



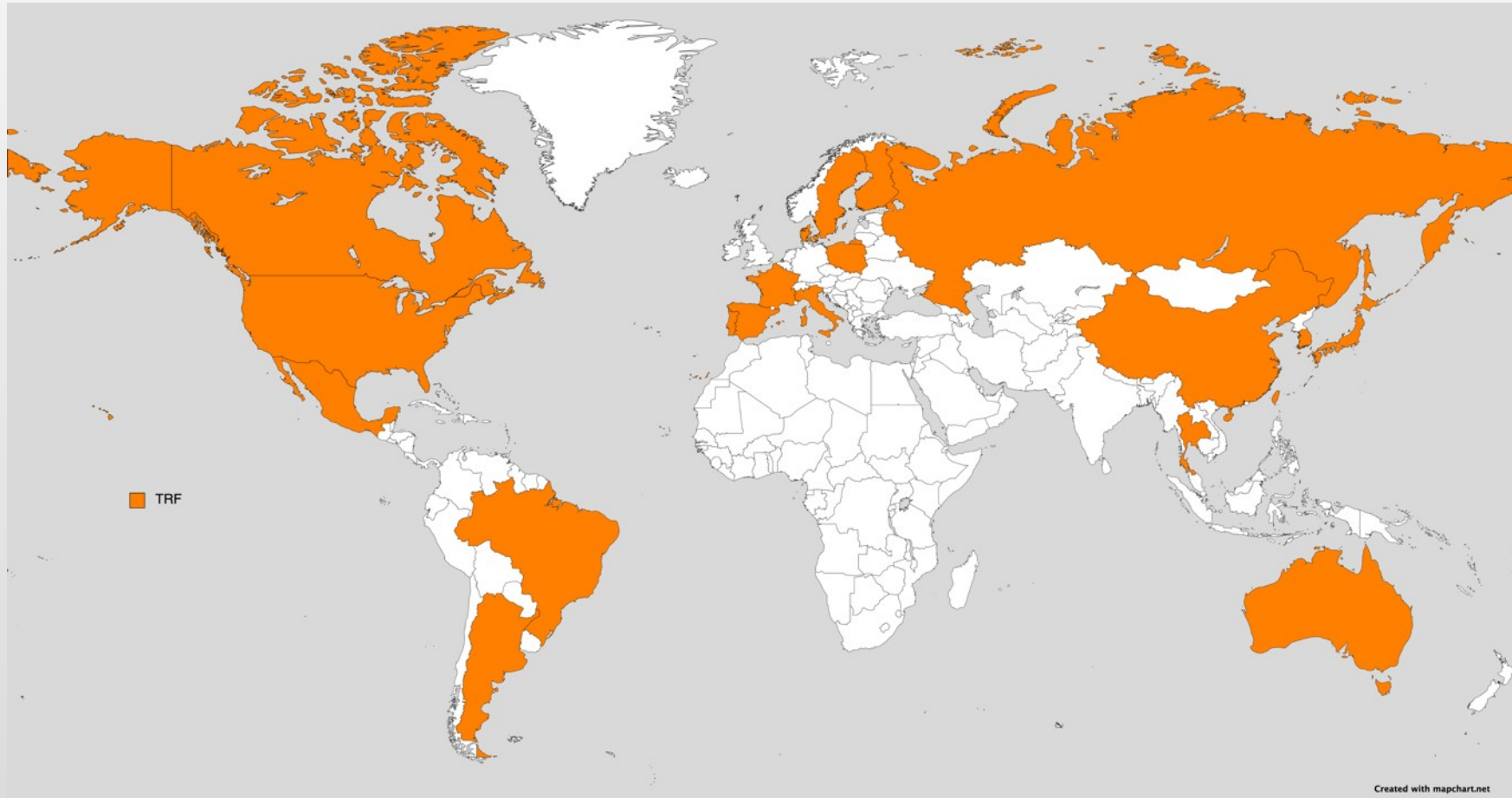
Sistemas Avanzados de Procesamiento de Chapa
Advanced Plate Processing Systems

ORIGIN OF THE TRF



The response to a basic requirement from TECOI clients, mostly in the off-shore sector and wind tower manufacturers, for solving issues of thermal alteration, tolerances and surface quality in responsibility weldings

EXISTING MODELS



- 38 TRF INSTALLED WORLDWIDE

EXISTING MODELS

TRF 4000

- MAIN USE
 - Wind towers (on-shore)
 - General application in thicknesses up to 70 mm in a single pass and 100 mm in two passes
- Beveling in K, Y and V shapes
- Head powers 30 / 45 kW
- Tool clamping HSK 100 A
- Tool types: Families 4P – 8P Diam. Max 210 mm
- Max torque in tool head: 1.150 Nm
- Max push force in X axis: 22.000 N
- Gantry weight: 23 t

EXISTING MODELS

TRF 5000

- MAIN USE:
 - Wind towers (off-shore)
 - Foundations (off-shore)
 - General applications in thickness up to 120 mm in a single pass and 200 mm in multiple passes
- Weld preparations of type K, Y, V, J
- Head powers 45 / 70 kW
- Tool clamping HSK 100 A and Combi-S
- Tool types: Families 8P – 10 P, Diam. Max 290 mm
- Max torque in tool head: 1.850 Nm
- Max push force in X axis: 42.000 N
- Gantry weight: 31 t

- MAIN USE:
 - Wind towers (off-shore)
 - Foundations (off-shore)
 - Monopiles
 - Large steel structures
 - General applications in thickness up to 180 mm in a single pass and 300 mm in multiple passes
- Weld preparations of type K, Y, V, J, I and large thickness transitions
- Head powers 75 / 100 kW
- Tool clamping HSK 125 A y Combi-S Max
- Tool types: Families 8P – 10 P – 16P, Diam. Max 340 mm
- Max torque in tool head: 3.050 Nm
- Max push force in X axis: 81.000 N
- Gantry weight: 42 t
- Double tandem motorization in X axis

CHARACTERISTICS

	TRF 4000	TRF 5000	TRF 5000 POWER DRIVE
Main Use	On-shore towers – 70 mm	Off-shore towers and foundations - 120 mm	Off-shore towers and foundations, monopiles, steel structures - 180 mm
Weld Preparations	K, Y, V	K, Y, V, J	K, Y, V, J, I
Head Powers	30 / 45 kW	45 / 70 kW	75 / 100 kW
Clamping	HSK 100A	HSK 100A, Combi-S	HSK 125A, Combi-S Max
Tools	4P-8P, Ø max 210 mm	8P-10P, Ø max 290 mm	8P-10P-16P, Ø max 340 mm
Max Torque in Tool Head	1.150 Nm	1.850 Nm	3.050 Nm
Max Push Force in X axis	22.000 N	42.000 N	81.000 N
Gantry weight	23 t	31 t	42 t
X axis motorization	Simple	Simple	Tandem

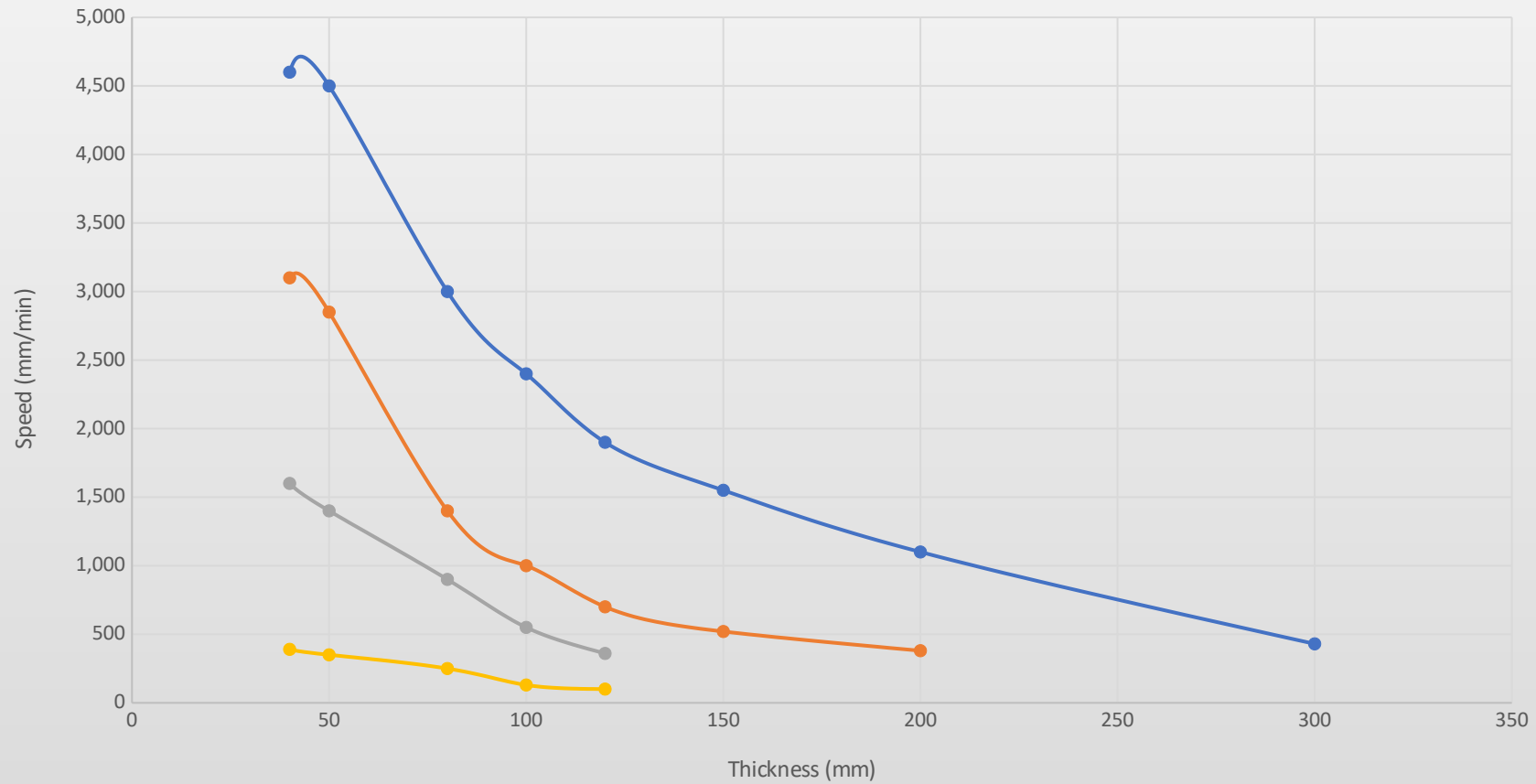
SPEEDS

PROCESSING SPEED Milling K 32° – 4 – 32°

	40	50	80	100	120	150	200	300
TRF PowerDrive	4.600	4.500	3.000	2.400	1.900	1.550	1.100	430
TRF 50 kW	3.100	2.850	1.400	1.000	700	520	380	
TRF 30 kW	1.600	1400	900	550	360			
Oxy-Fuel	390	350	250	130	100			

SPEEDS

PROCESSING SPEEDS



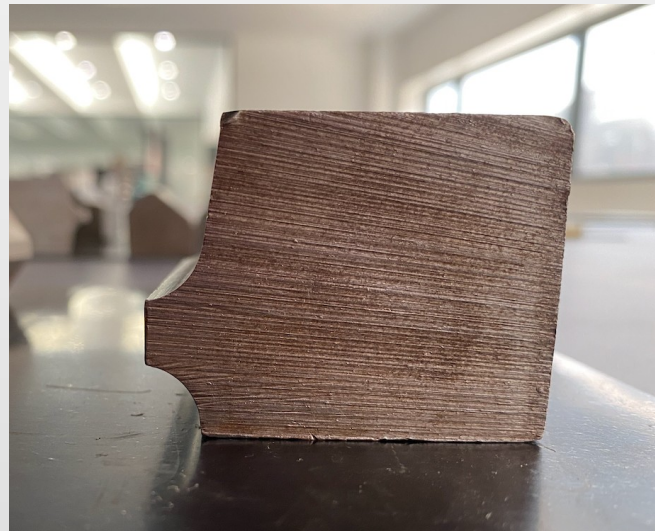
—●— TRF PowerDrive —●— TRF 50 kW —●— TRF 30 kW —●— Oxy-Fuel

BEVEL GEOMETRIES

- Bevels in V, K, X, Y



- Bevels in J



- Bevels in I



TRF 5000

Power drive



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